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## TECHNICAL REPORT

LUNSORT LIST

NASA CR-

147525

of Lunar Orbiter Data by LAC Area

(NASA-CR-147525) LUNSORT LIST OF LUNAR ORBITER DATA BY LAC AREA (Lockheed Electronics Co.) 4:1 p HC \$11.00 CSCL 03B N76-22129

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for

Earth Observations Division

National Aeronautics and Space Administration Lyndon B. Johnson Space Center Houston, Texas

> LOCKHEED ELECTRONICS COMPANY, INC. HOUSTON AEROSPACE SYSTEMS DIVISION HOUSTON, TEXAS 77058

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JSC-10853

## Abstract furnished by Author

LUNSORT List of Lunar Orbiter Data by LAC Area

Ъу

#### S. HIXON

Lunar Orbiter (missions 1-5) photographic data is listed sequentially according to the numbered (1 to 147) LAC (Lunar Aeronautical Chart) areas by use of a computer program called LUNSORT. This listing, as well as a similar one from Apollo, would simplify the task of identifying images of a given Lunar area. Instructions and sample cases are included.

#### FOREWORD

LUNSORT LISTING is a computer listing of imagery data acquired from Lunar Orbiters I through V, and is indexed by the USAF Lunar Aeronautical Charts (LAC) shown in figures 1 - 4. This listing was a planned outgrowth of GEMSORT, which lists all earth spacecraft imagery up to 1969 by approximate political boundaries. The listed photographic data includes values taken from Boeing's Lunar Orbiter tapes and presents them in the more compressed LUNSORT format. Two companion publications 640-TR-024 and 640-TR-025 are concerned with the computer program and data from Apollo (missions 8,10, 11, 12, 13, and 14) and are titled respectively: "LUNSORT: A Computer Program for Separating Apollo Photographs by Area" and "LUNSORT LIST: Apollo 8, 10, 11, 12, 13, and 14 Photographic Data by LAC Area".

This document was prepared by Lockheed Electronics Company, Inc., IEC Aerospace Systems Division, under contract NAS 9-10950. This report was prepared by S. Hixon with C. C. devalcourt compiling the data. Acknowledgment is also made to Mrs. Shirley Cornelius for preparation of the graphic illustrations. Apparent data errors discovered in this listing may be reported to S. Hixon, CO9, NASA-JSC, Houston, Texas 77058. Although LUNSORT is capable of generating values listed (except swing angle) in this publication, the Boeing values were retained in all cases.



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## INTRODUCTION FOR QUICK USE

The computer printout in section II of this report is derived from a program documented in 640-TR-024 "LUNSORT: A Computer Program for separating Apollo Photographs by Area"; note that this report uses Lunar Orbiter data.

A typical user question might be: Can a list be obtained of all Lunar Orbiter photographs which contain the details of the Crater Theophilus? The approximate steps to an answer are below:

- Examine figures 1 to 4 and note the LAC number and/or the quarter of a LAC of your point of interest. (LAC 78, the SE quarter for this case.)
- 2. Using the number in the upper left corner of each page of section II, thumb through the sequential numbers to "your" LAC, number 78.
- 3. Examine each third print-line for each photograph for the phrase: "S. E. PART OF LAC 78 ..." and note the mission and frame number of those photographs for your restricted list. Magazine numbers (1 & 2) are for the high and medium resolution, respectively.
- 4. Examine from your restricted list, the actual photographs to determine its usefulness to your purpose. Column titles in the printout apply to the first print line of each photograph and these values may help to further restrict your list, as well as well as the second line with defined values. Table I, a list of the LAC Areas by number, and Table II, which lists the first page in section II for that LAC area listing, are designed to aid users.
- 5. Photographs with the term "EASTERN PART OF LAC 78..." and "SOUTHERN PART OF LAC 78..." or just "LAC 78 THEOPHILUS..." might also be of interest.

At the top of each page, beginning that area LAC, there are special notes explaining symbols and abbreviations. Each LAC in the Table 1 list may be truncated on the right-hand end on any given third-print-line on photographs with 4 or more LAC's visible. Some other description phrases, other than LAC areas, are used to give the reader a better feel of that photograph. If there is a sixth area on the third-print-line of a given photograph, this may not be printed if the line is "filled up"; an example of this is on page 61 Lunar Orbiter 4 frame 116 in which the third-print-line does not have "LAC 28 ...".

Figure 1. Lunar earthside chart.

# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LUNAR FARSIDE CHART

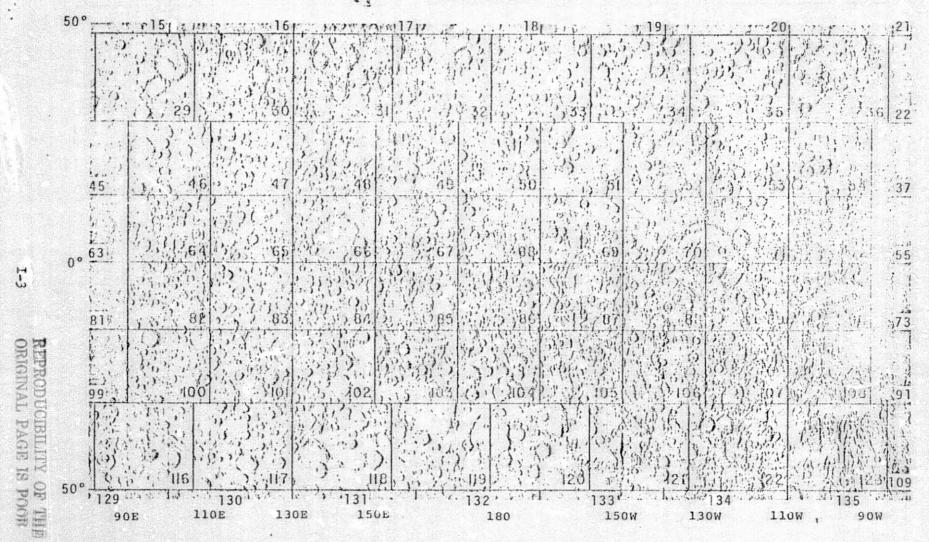


Figure 2. Lunar farside chart.

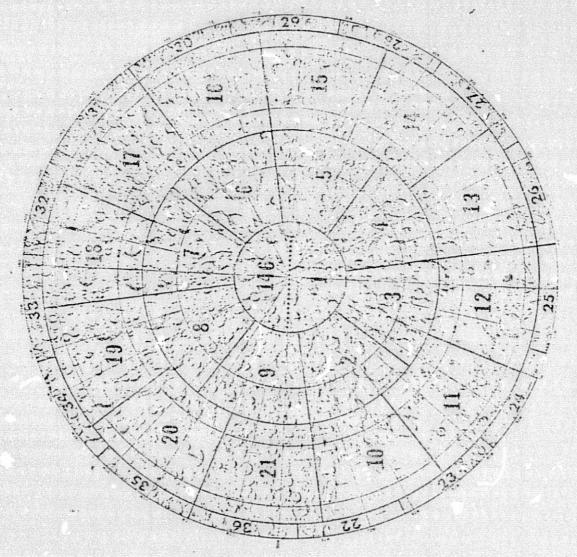


Figure 3. Lunar north pole chart.

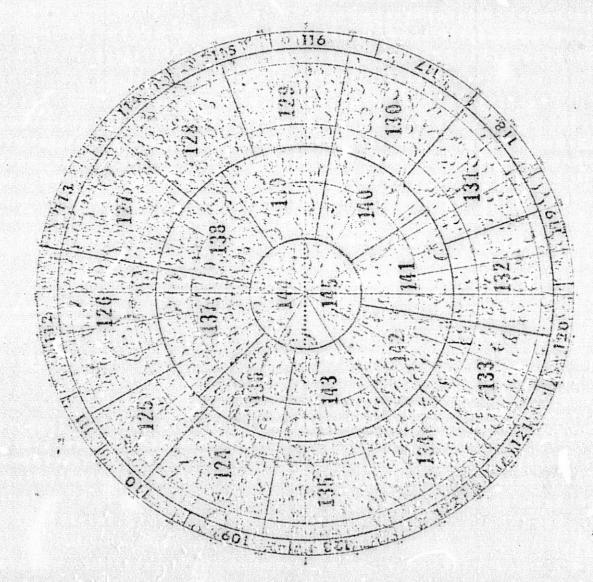


Figure 4. Lunar south pole chart.

## LAC # LAC DESCRIPTION

```
1
           LAC ! NoPOLE NEARSIDE BYRD, PEARY >80 H
  2
           LAC 2 ANAXIMENES, PASCAL
  3
           LAC 3 PHILOLAUS, BARROW
  4
           LAC 4 METON, DESITTER
  5
           LAC 5 PETERHANNE HAYN
  6
           LAC &
  7
           LAC 7 KARPINSKY
  £
           LAC 8 KIRKWOOD
  9
           LAC 9 CREHONA
 10
           LAC ID BLEBAGE, N. PROCELARM.
 11
           LAC II JUHERSCHEL, JURAS, BOUGUER
 12
           LAC 12 PLATO ALPINE VALO
 13
           LAC 13 ARISTOTE, MEFRIG
 14
           LAG 14 ENDYMION STRABO
 15
          LAC 15 MAHUMBOLTIANUM
 16
          LAC 16
 17
          LAC 1.7
 18
          LAC IB TIKHOY
 1.9
          LAC 19 CARNOT ROWLAND
 20
          LAC 20 COULOMS
 21
          LAC 21 H.GERARD, BOOLE
 22
          LAC 22 SE GERARD, BUNSEN, HARDING
 23
          LAC 23 RUHKER, SHARP
 24
          LAC 24 SINUS IRIDUM
25
          LAC 25 CASSINI ALPS HTS
26
          LAC 26 EUDOXUS, BURG
27
          LAC 27 GEMENUS ATEAS
28
          LAC 28 GAUSS, MESSALA, ZENO
29
          LAC 29 BRUND FABRY
30
          LAC 30 E:SZILARD WELLS
31
          LAC 31 WIENER
3.2
          LAC 32 HUTTON
33
          LAC 33 SCHNELLER
34
          LAC 34 FOYLER
35
          LAC 35 LANDAU
36
          LAC 36 RONTGEN LORENZ
37
          LAC 37 STRUYE DALTON
38
          LAC 38 SELEUCUS. SCHROTER Y.
39
          LAC 39 ARISTARCHUS
40
          LAC 40 TIMOCHARIS LAMBERT
41
          LACMAL APENNINES, HARMUS
42
          LAC 42 H. SERENITY DAWES
43
          LAC 43 HACROBIUS, PROCLUS
44
          LAC 44 CLEOMEDES M. CRIS.
45
          LAC 45 PLUTARCH, HAHN
                                                REPRODUCIBILITY OF THE
46
          LAC 46 JOLIOT HAXWELL
47
          LAC 47 OLCOTT
                                                ORIGINAL PAGE IS POOR
48
         LAC 48 H.H. HOSCOVIENSE
49
         LAC 49 E.H. HOSCOVIENSE
50
         LAC 50 HORSE
51
         LAC 51 JACKSON
52
         LAC 52 JOULE E. HACH
```

```
LAC. *
              LAC DESCRIPTION
   53
            LAC 53 OHM FERSMAN
             LAC 54 BELB LADE
   54
             LAC 55 VASCODEGAMMA, HEDIN
   55
   56
             LAC 56 HEVELIUS REINER
   57
                57 KEPLER , ENCKE
   58
             LAC
                58 COPERNICUS REINHOLD
   59
             LAC
                59
                    M. VAPORUH, HYGINUS
   60
             LAC
                6C
                    J. CAESAR, SABINE, JANSEN
   ó i
                    TARUNTIUS, LYELL
             LAC 61
   62
             LAC 62 M. UNDARUM. S. CRISIUM
   63
             LAC
                43 NEPER, SCHUBERT, N. SHYTH!
   64
             LAC 64 NE SMYTHI! HERTZ
   65
             LAC 65 GUYOT KING
   60
             LAC 66 MENDELEEV
   67
             LAC 67
                    SPENCER
   68
             LAC 68
                    SHARONOV
   49
             LAC 69 ENGLEHARDT
   70
             LAC 70 N.W. HERTZSPRUNG, ARTEM
   71
             LAC 71 N.E.HERTZSPRUNG.GRIGG
   72
            LAC 72 ELVEY NOBEL
   73
             LAC 73 PICCIOLIENE ORIENTAL
   74
             LAC 74 GRIMALDI BILLY
   75
             LAC
                75 LETRONNE, FLAHSTO
   74
             LAC 76 RIPHAEUS MT.FRAU MAURO
   77
             LAC 77
                    PTOLMAEUS . KLEIN
   78
             LAC 78 THEOPHILUS KANT
   79
             LAC
                7.9
                    COLOMBO, NE . M. NECTAR
   80
             LAC
                    LANGRENUS MAFERTO
                 80
   81
             LAC
                8 [
                    ANSGARIUS, W. M. SHYTHI
  82
             LAC 82 SE . M . SMYTHI . PASTEUR
   83
             LAC 83
                    LANGEMAK
   84
             LAC 84
                    DELLINGER
  85
             LAC 85 KEELER
  86
             LAC 86 DAEDALUS
   87
             LAC 87
                    KOROLEV DOPPLER
   88
             LAC 88 S. H. HERTZSPRUNG, PASCHEN
  89
             LAC 89 SEE HERTZSPRUNG JOFFE
  90
             LAC 90 LONELL
  91
             LAC 91 EICHSTADT, SEOGRIENTAL
  92
            LAC
                 92 BYRGIUS, DARWIN
  93
            LAC
                93 M.HUMOR. GASSENDI
  94
                HUIBUN.M. ZUTATIS PP
  95
                95 PURBACH ARZACHEL
            LAC
  96
            LAC 96 ALTAI SCARP, GEBER
  97
            LAC 97 FRACASTORIUS.S.NECTAR
  98
            LAC
                98 PETAVIUS HOLDEN
  99
                99 HUMBOLT, GIBBS
            LAC
 100
            LAC
                100 CURIE
 101
            LAC
                101 TSIOLKOVSKY
 102
            LAC
                102 GAGARIN, E. TSIOLKOVSKY
 103
            LAC
                103 PARACELSUS
 104
            LAC
                104 AITKEN, ORLOV
```

```
LAC DESCRIPTION
LAC 3
             LAC 105 MOHOROVICIC
  105
  106
             LAC 106 MARIOTTE
             LAC 107 ELLERMAN
  107
             LAC 108 M.ORIEN(SW 1/3 0)
  108
             LAC 109 PIAZZI. V. BOUVARD
  109
             LAC 110 SCHICKARD LACROIX
  110
             LAC 111 WILHELM . ELGER . MEE
  111
             LAC 112 TYCHO, STOFLER
  112
             LAC 113 MAUROLYCUS, RAB . LEVI
  113
             LAC 114 RHEITA JANSSEN
  114
  115
             LAC 115 FURNERIUS OKEN
             LAC 116 MOAUSTRALE, JENNER
  116
             LAC 117 VAN DER WAALS
  117
             LAC 118 JULES VERNOPAULI
  118
             LAC 119 THOMPSON, VON KARMAN
  119
             LAC 120 OPPENHEIMER
  120
             LAC 121 APOLLO
  121
             LAC 122 LANGMUIR STETSON
  122
             LAC 123 STEKLOV
  123
  124
             LAC 124 PHOCYLIDES
  125
             LAC 125 SCHILLER, SEGNER
             LAC 126 CLAVIUS MAGINUS
  126
             LAC 127 HUMMEL, VLACQ
  127
  i 28
             LAC 128 BIELA WATT
             LAC 129 M.AUSTRALE, LYOT
  129
             LAC 130 E.MAR AUSTRALE, PRIESTLY
  130
             LAC 131 PRANDTL PLANK
  131
             LAC 132 ABBE HESS
  132
             LAC 133 LEMAITRE
  133
             LAC 134 BOLTZMANN
  134
             LAC 135 PINGRE N. HAUSEN
  135
             LAC 136 BAILLEY . KIRCHER
  136
             LAC 137 NEWTON, MORETUS
  137
             LAC 138 MANZINUS, SCHMBGER
  138
             LAC 139 HELMHOLZ, HALE
  139
             LAC 140 SCHRODINGER
  140
             LAC 141 RAYLEIGH
  141
  142
             LAC 142 ZEEMAN
  143
             LAC 143 S. HAUSEN LEGENTIL
             LAC 144 SCOTT, S. POLE NEARSIDE > 805
  144
             LAC 145 S.POLE FARSIDE: AMUNDSEN >80S
   145
             LAC 146 N.POLE FARSIDE NANSEN #3 >80N
   146
            UNKNOWN LUNAR AREA
   147
```

The listing of photographs of any LAC area are in mission order (ie. Lunar Orbiter 1, 2, 3, 4, and 5) and the data pertaining to each photograph is printed on three lines (see section II). The first line is the "basic data line" and the column titles apply to this line. The second line is "lunar support data line" which contains camera nadir, swing angle, phase angle, emission angle, camera radius (from the planet center), and sun azimuth; this line differs from the Appolo data line by the addition of swing angle which is defined as the angle between the principal plane, which includes the principal point, and the y-axis which parallels the long edge of orbiter frames. This angle is measured clockwise. The third line is the "description line" (made up from DATA-statement-lines from table 1, which is abstracted from subroutine NAMLIN). From this third line the user can determine several useful points concerning that particular photograph and his point, or area of interest:

- 1. If that photograph has imagery of only a portion of the LAC example on page I-1, the "description line" printout could read: "S. E. PART OF LAC 78 THEOPHILUS KANT"; rest of the line is blank.
- 2. If other adjacent partial LAC's are in the image, these will be mentioned with the following restrictions:
  - a) If the "whole" eastern half of LAC 78 (or parts of the NE and SE quarters) were visible the "description line" might read in part: "EASTERN PART GF LAC 78 THEOPHILUS KANT".
  - b) If the southern half (or parts of the SE and SW) were visible: "SOUTHERN PART OF LAC 78 THEOPHILUS KANT" could be read.
  - c) If the photograph had less than six LAC's visible and LAC 78 were one of these, then "LAC 78 ..." should be mentioned in the "description line". Very small scale views or all of the lunar disc would be mentioned as such in the "description line" and these could have 20 or more LAC's; hence many of these small scale views would not necessarily be listed in the LAC 78 list.
- 3. The LAC which contains the principal point of the photograph is usually mentioned first in the "description line"; high oblique photographs may be exceptions, as well as those taken from an altitude greater than 1000 nautical miles.
- 4. The user might wish to further limit his LAC 78 list by tilt angle, or other items of his choice after reviewing the support data. This could be done by inspection or by special computer submission.

Table 2

LAC INDEX FOR COMPUTER PAGES

			:	*	
LAC	PAGE	LAC	PAGE	LAC	PAGE
-		49	103	98	308
3	1 6 8	77			ا مده
- 2	2	50	104	99	311
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18	36	66	201	115	342
19	38	67	203	116	3/1/4
19 20	30		204	117	346
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33	68	81	277	130	369
33 34	69	82	281	131	370
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37	74	85	285	134	373
38	76	86	286	135	374
39	79	87	288	136	375
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41	87	89	291	138	379
42	91	90	292		264
				139	381
43	94	91	293	140	383
44	96	92	295	141	385
45	98	93	297	142	386
46	100	94	300	143	387
47	101	95	302	144	388
48	102	96	304	145	
40	í OZ				392
		97	306	146	394

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAHERA-LENS OR H-DA-YR GMT AND FILTER TUDE PRIN. AZ ANG. ANG. FHD. MIS MAG FR. PHOTO PRIN. PT. OR8 GET SENSOR TIMES-HR M SEC LAP M=N+MI PT. FR. SION ROLL TYPE ( = ESTIMATED) LONG. 8. 8 HAIN VERT K=KH.

- L 4 2 92 71-17N 32-23E 17 6.0 9000 065357 5-17-67 LUNAR ORB LO.F #80HH B&W HONE 3457K 43212500 129 66 12 CAM-NAD. 71-92N 29-48E SWING 306- PHASE 79- EMIS-ANG- 2- CAM-RAD. 5196-2 KM- SUN AZH=127-4 LAC 4 METON-DE51T 1 LAC 7 KARPINSKY 1 LAC 41 APENNINES, 1 LAC 44 CLEOMEDES, M.CRIS. & LAC 18 T1KHOV
- L 4 2 116 70.86N 4.49E 21 \*\*\* \*\*\* \*\*\* 070041 5~19~67 LUNAR ORB LO.F=80HM 86W -- NONE 3397K 4246250D 148 .6 12 --.\*

  CAM.NAD.= 71.88N 2.48E SWINGE 326. PHASE= 80. EM[S.ANG.= 2. CAM.RAD.= 5136.2 KH. SUN AZH=124.1

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- L 4 | 42% 70°D9N 84°O8E 9 \*\*\* \*\*\* 064506 5~13~67 LUNAR ORB H1° 610MM B6W NONE 3494K 5727869 188 \*8 14 --\*\*

  CAM\*NAD\*\*\* 71°60N 84°75E SWING= 357° PHASE\*\* 78° EHIS\*ANG\*\*\* 2° CAH\*RAD\*\*\* 5233°Z KM° SUN AZM\*130°1

  DEGRADED NEGATIVE : LAC 5 PETERMANN° : LAC 6 ; LAC 15 M\*HUMBOLTIANUM 6 LAC 1 N\*POLE NEARSID
- 4 1 68 70.93N 53.66E 13 \*\*\* \*\*\* D64827 5-15-67 LUNAR ORB HI. 610MM B&W \*\* NONE 3488K 5712D33 239 \*7 12 -.90

  CAN.NAD.\* 71.63N 57.12E SWING= 5D. PHASE\* 78. EHIS.ANG.\* 2. CAM.RAD.\* 5227.2 KM. SUN AZM\*124.4

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  CAM+NAD+M 42+75N 41+06E SWING\* 383\* PHASE= 71\* EMIS\*ANG\*\* 6\* CAM+RAD\*\* 4709\*2 KM0 SUN AZM=113\*2

  DEGRADED NEGATIVE 1 LAC 27 GEMINUS\*AT ; W>1/2 MOON SPHERE ; LAC 146 N\*PULE FARSIDE!NANSEN\*H3 >80N & LAC 114 RHEITA, JANSS
- 4 1 80 70-45N 46-09E 15 \*\*\* \*\*\* 065107 5-16-67 LUNAR ORB HI 610HM 86N NONE 3479K 5703279 147 \*8 13 \*\* 3

  CAM-NAD-\* 71-87N 43-34E SWING= 323. PHASE\* 79. EMIS-ANG-\* 3. CAM-RAD-\* 5218-2 KH. SUN AZM\*128-9

  LAC 4 METON-DESIT I LAC 5 PETERMANN. ; LAC 13 ARISTUTE., I LAC 14 ENDYMION.STRABO & LAC 1 N.POLE NEARSID

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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HIS MAG FR. PHOTO PRIN. PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SIUN HOLL OR LAT. # TIMES-HR M SEC SEN5OR AND FILTER TUDE PRING AZ ANG. ANG. FWD. LONG. (IMESTINATED) MAIN TYPE HEN.HI PT. FR. LAP K™KM• VERT 8. 8 92 71°16N 32"23E 17 \*\*\* \*\*\* 065357 5-17-67 LUNAR ORB H1 . 610MH B6W - NONE 3457K 56672[3 129 \*6 12 -. 3

CAM-NAD-= 71.92N 29.48E SWING= 306. PHASE= 79. EMIS-ANG-= 2. CAM-RAD-= 5196.2 KM. SUN AZH=127.4
LAC 4 METON, DESIT : LAC 5 PETERMANN. | LAC 3 PHILULAUS. 8 ; LAC 13 ARISTOTE. M-FRIG & LAC 1 N. POLE NEARSID

L 4 2 98 40-97N 18-53E 18 040 0400 181626 5-17-67 LUNAR ORB LO.F-80MM BGW - NONE 2938K 36725000 118 2.Z 23 -027

CANONADAR 42.81N 14.21E SWINGM 2820 PHASED 72. EMISUANG.R 60 CAMORADON 4677.2 KM. SUN AZMR111.3

LAC 26 EUDUXUS.BU ; W>1/2 MOOI. SPHERE I LAC 44 CLEOMEDES.; LAC 78 THEOPHILUS.KANT 6 LAC I N.POLE NEARSID

L 4 | 104 /0.35N 18.10E 19 ext ext 045708 5-18-67 LUNAR ORB HI. 610MM BGW -- NONE 3428K 5619672 153 .9 12 -. 1 LAM:NAD: 71.87N 15.88E SWING: 330. PHASE: BD. EMIS:ANG. 3: CAM:RAD: 5167-2 KM. SUN AZH:125-4 LAC 4 METON:DESIT : LAC 3 PHILOLAUS:B : LAC 13 ARISTOTE.: LAC 12 PLATO:ALPINE VAL. 6 LAC I N:POLE PEARSID

L 4 2 115 42.28N 2.67W 21 04.0 04.0 062212 5-19-67 LUNAR ORB LO.F.BOHM BGW - NONE 2905K 36312500 101 1.4 21 -.21

LAM.NAD.M. 42.76N 5.70W SWINGE 266. PHASEX 73. EMIS.ANG.M. 4. CAM.RAD.M. 4644.2 KM. SUN AZMX109.5

LAC 25 CASSINI.AL 1 6>1/2 MOON SPHERE 1 LAC 76 RIPHAEUS M : LAC 1 N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 16

L 9 2 122 42+LBN 9+24+ 22 \*\*\* \*\*\* 182411 5-19-67 LUNAR ORB LO.FBBOMM BOK \*\* NONE 2875K 36187500 In5 1+4 21 -+22

CAM+NAD+\* 42+76R 12+27W SWING= 27D+ PHASE\*\* 73+ EMIS+ANG+= 4+ CAM+RAD+= 4634+2 KM+ SUN AZM=109+1

LAC 25 CASSIN1+AL : W>1/2 MOON SPHERE; LAC 76 RIPHAEUS H; LAC 1 N.POLE NEARSIDE BYRD,PEARY >80 N & LAC 14 ENDYMION,STRA

L 4 2 127 41-21N 14-29M 23 \*\*\* \*\*\* 06261U 5-20-67 LUNAR ORB LO.F=80NM R&W -- NONE 2886K 36075000 114 2-2 22 --27

CAM-NAD-- 42-81N 18-79W SWING= 278. PHASE= 74. EMIS-ANG.= 6. CAM-RAD-- 4625-2 KM- SUN AZH=109.6

LAC 24 SINUS INIU 1 W>1/2 HOON SPHERE : LAC 76 RIPH&EUS N : LAC 1 N.POLE NEARSIDE BYRD-PFARY >80 N & LAC 146 N.POLE FARSI

- L 4 1 164 70-19N 41-50Y 29 \*\*\* \*\*\* 071247 5-23-67 LUNAR ORB HI + 610HM B6W NONE 3346K 5485246 136 1-4 13 --16
  CAM-NAD-- 72-26N 47-11W SWING= 313. PHASE= B1. EHIS-ANG== 4. CAM-RAD-E 5085-2 KM. SUN AZH=126-8
  LAC 2 ANAXIMENES, PASCAL : LAC 3 PHILOLAUS, BARROW : LAC 10 BABBAGE, N. PROCELARM. 6 LAC 11 J. HERSCHEL.J
- L 4 2 175 41.29N 66.78W 31 \*\*\* \*\*\* 063541 5-24-67 LUNAR ORB LO.FR88BMM B&W -- NONE 2872K 35900000 114 2.0 19 -.90

  CAN.NAD.= 42.86N 70.79W SWING= 279. PHASE= 76. EM15.ANG.= 5. CAM.RAD.= 46[1.2 kH. SUN AZM=106.8

  LAC 22 5L.GERARD.BUNSEN.HARDING : B>1/2 MOON SPHERE : LAC 73 RICCIOLI,NE.ORIENTAL & LAC 1 N.POLE NEARSI

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

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MIS MAG FREPHUTU PRINEPT ORN
                            GET
                                    GMT M-DA-YR
                                                  CAMERA-LENS OR
                                                                 FILH-EXPOSURE
                                                                                 ALTI SCALE AT TILT SUN SIDE.
SION RULL OR LAT. # TIMES-HR M SEC
                                                     SENSOR
                                                                       AND FILTER TUDE PRIN. AZ ANG. ANG. FWD.
         MAIN
               LONG.
                            ( =ESTIMATED)
                                                     TYPE
                                                                                  M×N.HI PT.
                                                                                                 FR.
                                                                                  K*KH•
                                                                                                  VERT
L 4 1 176 69.97N 54.78W 31 000 0000 071413 5-24-67 LUNAR ORB HI 6 610HH BEW
                                                                       " NONE 3354K 5498361 142 1.5 13 -.18
    CAM-NAD-= 72-28N 59-77H SWING= 320. PHASE= 81. EHIS-ANG-# 4. CAM-RAD-# 5073-2 KH. SUN AZH#125.7
   LAC 2 ANAXIMENES PASCAL
                                I LAC 3 PHILOLAUS BARROW
                                                       I LAC 10 BABBAGE N. PROCELARM. & LAC 11 J. HERSCHEL.J
L 4 2 183 43.53N 71.02W 32 000 000 183607 5-24-67 LUNAR ORB LO.F=80MM 86W
                                                                        - NONE 2874K 35925000 79 2.8 20 -.90
                             SWING= 242. PHASE= 77. EHIS.ANG.= 8. CAM.RAD.= 4613.2 KM. SUN AZH=108.9
    LAM . NAD . * 42 . 84N 77 . 39H
 LAC 22 SE.GERARD, BUNSEN, HARDING 1 D>1/2 MOON SPHERE
                                                           : LAC 90 LOWELL
                                                                                        & LAC I N.POLE NEARST
L 4 2 189 41.72N 79.99W 33 *** *** 863636 5-25-67 LUNAR ORB LO.F*80HM BGW
                                                                       - NONE 2878K 35975000 110 1.9 18 -. 05
   CAMONADO 42.88N 84.00W SWING= 273. PHASE= 77. EMISOANG.= 5. CAMORADO 4617.2 KM. SUN AZMEID6.1
   LAC 22 SE-GERARD BUNSEN HARDING : D>1/2 HOON SPHERE
                                                      LAC 108 HEDRIENISH 1/3 DI G LAC I NEPOLE NEARSI
```

- L 4 1 190 70034N 63047W 33 000 0000 071553 5-25-67 LUNAR ORB H1 610HN BGW NONE 3373K 5529508 125 109 14 CAM.NAD. = 72.71N 72.45W SWING 306. PHASE 82. EMIS.ANG. # 6. CAM.RAD. 5112.2 KH. SUN AZHE129.2 LAC 10 BABBAGE, N. PROCELARH. : LAC 3 PHILOLAUS, BARROW & LAC 9 CREHONA LAC 2 ANAXIMENES PASCAL
- L 4 .2 1915 38-29N 53-79E 33 \*\*\* \*\*\* 094706 5-25-67 LUNAR ORB LO.F#80MH BOW NAME 5503K 68787499 288 7.0 16 CAN.NAD. = 33.95N 84.05E SWING= 282. PHASE= 107. EMIS.ANG.= 34. CAMeRAD = 7242+2 KH+ SUN A7H=257+6 DEGRADED NEGATIVE : LAC 27 GEMINUS.AT : D>1/2 MOON SPHERE : LAC 98 PETAVIUS.HOLDEN & LAC 26 EUDOXUS BURG
- L 4 2 1925 38-22N 53-84E 33 +++ 094709 5-25-67 LUNAR OR8 LO.F #80MM BGW - NONE 5504K 68799999 288 7.7 16 -.90 CAN-NAD. 33.93N 86.05E SWING 282. PHASE 107. EHIS.ANG. 34. CAH+RAD+= 7243+2 KH+ SUN AZH=257+7 DEGHADED NEGATIVE : LAC 27 GEMINUS.AT : W>1/2 HOON SPHERE : LAC BO LANGRENUS.H.FERT. & LAC 26 EUDDXUS.BURG
- 5 59.91N 111.74W 2 \*\*\* 4.9\* 1122U3 8-06-67 LUNAR ORB LO.F=80HN BGH - NONE 2647K 33087500 286 9.7 8 CAM-NAD-# 50-97N B1-16W SWINGE 910 PHASE 1070 ENISONG. 250 CAM-RAD. 438602 KM. SUN AZHE259-5 LAC 20 COULDMB : D>1/2 MOON S'HERE: LUNAR No HEHISPHE: LAC 1 NoPOLE MEARSIDE BYRD. PFARY >80 N & LAC 5 PETERMANN, HAY
- L 5 . 2 6 59 × 85N 111 × 66 W 2 \*\*\* \*\*\*\* 112205 8 → D6 − 67 LUNAR ORB LO , F×8DMM B6W - NONE 2648K 33100000 286 9.7 8 -.90 CAM.NAD. = 58.94N 81.15W SWING 91. PHASE 107. EMIS.ANG. = 25. CAH. RAD. = 4387.2 KH. SUN AZN=259.6 LAC 20 COULOMB : 10>1/2 MOON SPHERE : LUNAR N. HEMISPHE : LAC I N. POLE NEARSIDE BYRD. PEARY >80 N & LAC 5 PETERHANN. HAY
- L 5 2 7 57-78N 111-58W 2 000 11220B 8-06-67 LUNAR ORB LO+F=BOHH B&W NONE 2650K 33125000 286 9.7 8 CAM-NAD = 58.91N 81.14W SWING= 91. PHASE= 107. EMIS.ANG.= 25. CAM-RAD-= 4389-2 KM+ SUN AZM=259-7 1 W>1/2 MOON SPHERE : LUNAR N. HEMISPHE : LAC I N. POLE NEARSIDE BYRD. PEARY >80 N & LAC 5 PETERHANN. HAY LAC 20 CONLUMB
- 8 59.72N 111.50W 2 49 \* \*\*\* 112211 8-06-67 LUNAR DRB LO.F. 80HH BGW \* NONE 2452K 33150000 286 9+6 8 CAH . NAD . . . 56 . 88N 81 - 12N SWING= 91. PHASE= 107. EMIS.ANG.= 25. CAM - RAD -= 4391 - 2 KH - SUN AZH = 259 - 8 LAC 20 COULONS : WEST MOON SPHERE : LUNAR No HENTSPHE : LAC I NOPOLE NEARSIDE BYRD PEARY SOON & LAC 5 PETERHANN, HAY
- L 5 2 9 59.65N 111.42W 2 600 0000 112214 8-06-67 LUNAR ORB LO.F. #BOHM REW - NONE 2659K 33175000 206 906 8 -.90 CAM . NAD . = 58 . 85N 81 . 1 W SWINGE 900 PHASE= 107. EMIS-ANG.= 25. CAM-RAD. 4393.2 KM. SUN AZH#259+B LAC 26 COULONS 1 DOTZ MOON SPHERE ; LUNAR N. HEMISPHE ; LAC I N. POLE NEARSIDE BYRD. PEARY >80 N & LAC 5 PETERMANN, HAY
- L S 2 10 59.59N 111.34W 2 \*\*\* \*\*\* \*\*\* 112216 8-06-67 LUNAR ORB LO.F=80HH B&W NONE 2656K 3320nnd0 285 9.6 8 -.90 CAN.NAD.= 50.82N 81.10W SWING= 90. PHASE= 107. EMIS.ANG.= 25. CAM • RAD • # 4395 • Z KH • 5UN AZH=259 • 9 LAC 20 COULDHS 1 Wol/2 HOON SPHERE 1 LUNAR N. HEMISPHE 1 LAC 1 N. POLE NEARSIDE BYRD. PEARY >BO N & LAC 5 PETERMANN, HAY

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ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE CAMERA-LENS OR HIS MAG FR. PHOTO PRIN. PT. ORB GET GHT M-DA-YR PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SENSOR # TIMES-HR M SEC SION ROLL OR LAT. FR. MEN.MI PT. LAP TYPE (I=ESTIMATED) MAIN LONG. K=KH= 8. 3

- L 5 Z 12 59.46N 111.19W 2 0.0 0.00 112222 8-06-67 LUNAR ORB LO.F=80HH B&W NONE 2659K 3323750D 285 9.6 8 -.90

  CAM.NAD.= 58.75N 81-08W SWING= 90. PHASE= 107. EMIS.ANG.= 25. CAM.RAD.= 4398.2 KM. SUN AZM=260.1

  LAC ZU CUULUHB | W>1/2 MOUN 5PHERE : LUNAR N. HEMISPHE : LAC I N.POLL NEARSIDE BYRD.PEARY >80 N & LAC 5 PETERHANN, HAY

TOTAL PHUTOS IN THIS GROUP # 4

MIS HAG FR.PHOTO PRIN.PT. ORB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL UH LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. ( =ESTINATED) TYPE M=NoMI PT. FR. LAP K=KH. VERT 8 8

- L 4 2 133 18.74N 29.69W 24 \*\*\* \*\*\* 175540 5-20-67 LUNAR ORB LO.F=80HH BGW NONE 2673K 33412500 340 3.3 19 --120 CAM-HAD-= 13.91N 27.86W SWING= 156. PHASE= 68. EHIS-ANG.= 8. CAM-RAD-= 4412.2 KM. SUN AZH= 95.9 LAC 4D TIMUCHARIS-LAMBERT : @>1/2 MOON SPHERE : LAC 93 M.HUHOR.,GASSFNDI & LAC 2 ANAXIHENES.PA
- L 4 | 140 71.05N 16.31W 25 080 8600 070801 5-21-67 LUNAR ORB HI. 610HM B&W NONE 3355K 5500000 117 1.2 13 -.22

  CAM.NAD.= 72.21N 22.53W SWING= 297. PHASE= 81. EMIS.ANG.= 3. CAM.RAD.= 5094.2 KM. SUN AZM=127.7

  LAC 3 PHILOLAUS.BARROW ; LAC 11 J.HERSCHEL, JURAS.BOUGUE; LAC 12 PLATO.ALPINE VAL. & LAC 4 HETON.DESITTE
- L 4 1 152 69\*78N 29\*61W 27 \*\*\* \*\*\* 071044 5-22-67 LUNAR ORB H1+ 610MH 86W NONE 3345K 5483607 142 1\*5 13 --+15 CAM\*NAD\*\* 72\*22N 34\*79W 5WING\* 321\* PHASE\* 81\* EMIS\*ANG\*\* 4\* CAM\*RAD\*\* 5084\*2 KM\* SUN AZH=126\*4 LAC 3 PHILOLAUS\*BARROW I LAC 2 ANAXIMENES\*PASCAL I LAC 11 J\*HERSCHEL\*JURAS\*BOUGUER& LAC 1 N\*POLE NEARS1
- L 4 1 164 70-19N 41-50H 29 \*\*\* \*\*\* 071247 5-23-67 LUNAR ORB HI 610HM BGW -- NONE 3346K 5485246 136 104 13 -616 Camemader 72-26N 47-11W Swing 313. Phase Bi. Emis-Ang. 4. Camerader 5085-2 km. Sun Azhri26-8 LAC 2 Anaximemes, Pascal I lac 3 Philolaus: Barrow I lac 10 Babbage. N. Procelarm. 6 lac 11 J. Herschel. J
- L 4 1 176 69.97N 54.78W 31 \*\*\* \*\*\* \*\*\* 071413 5-24-67 LUNAR ORB HI. 610MM 85W NONE 3354K 5498361 142 1.5 13 -.18

  CAM-NAD-= 72.28N 59.77W SWING= 320. PHASE\* 81. EMIS.ANG.R 4. CAM.RAD.R 5093.2 KM. SUN AZH=125.7

  LAC 2 ANAXIMENES.PASCAL : LAC 3 PHILULAUS.BARROW : LAC 10 BABBAGE.N.PROCELARH. 5 LAC 11 J.HERSCHEL.J
- L 4 I 190 70+34N 63-47W 33 0+0 0+0 071553 5-25-67 LUNAR ORB HI. 610MM B&W NONE 3373K 5529508 125 1-9 14 --48

  CAN+NAD-= 72-71N 72-45W SWING= 306- PHASE= 82- EMIS+ANG-= 6- CAM-RAD-= 5112-2 KM- SUN AZM=129-2

  LAC 2 ANAXIMENES-PASCAL ; LAC 10 BABBAGE,N-PROCELARM- ; LAC 3 PHILOEAUS-BARROW & LAC 9 CREMONA
- L 4 2 190 70-34N 63-47W 33 \*\*\* \*\*\* 071554 5-25-67 LUNAR ORB LO-F=80HM R6W NONE 3373K 42162500 125 1-9 14 --,\*\*

  CAM-NAD-= 72-71N 72-45W SWING= 306. PHASE= 82. EMIS-ANG.= 6. CAM-RAD-= 5112-2 KM+ SUN AZM=129-2

  LAC 2 ANAXIMENES, 1 65-1/2 MOON SPHERE: LAC 54 BELB LAUE: LAC 15 M.HUNBOLTIANUM 6. LAC 27 GEMINUS, ATLAS

The second

2

LAC & ANAXIMENES PASCAL

PAGE

MIS MAG FR,PHOTO PRIN.PT. DRB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE SION ROLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FW H MAIN LONG. (!=ESTIMATED) TYPE H=N.MI PT. FR. L K=KH. VERT S.

TUTAL PHOTOS IN THIS GROUP =

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4

MIS MAG FREPHUTO PRINEPT. ORB GET GHT M-DA-YR CAHERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG ANG FWD. MAIN LUNG. (1=ESTIMATED) TYPE HENAHI PT. FR. LAF KmKH. VERT

- L 4 1 104 78°35N 18°10E 19 \*\*\* °\*\*\* 065708 5-18-67 LUNAR ORB HI° 610MM BGW -- NONE 3428K 5619672 153 °9 12 --CAN\*NAD° 71°87N 15°88E SWING\* 330° PHASE\* 80° EM15°ANG\*\* 3° CAM\*RAD°\* 5167°2 KM° SUN AZM\*125°4 LAC 4 METON,DESIT 1 LAC 3 PHILOLAUS,B ; LAC 13 ARISTOTE\*°; LAC 12 PLATO°ALPINE VAL\* 6 LAC 1 N°POLE NEARSID
- L 4 1 116 70.80N 4.49E 21 600 4000 070041 5-19-67 LUNAR ORB HI. 610MM BGW -- NONE 3397K 5568852 148 06 12 -- 6

  LAM.RAD. 71.88N 2.48E 5WINGE 326. PHASEE 80. EMIS.ANG. 2. CAM.RAD. 5136.2 KM. SUN AZMEIZ4.1

  LAC 3 PHILULAUS.B : LAC 4 METON.DESIT : LAC 12 PLATO.ALPI : LAC 13 ARISTOTE. M.FRIG 6 LAC 1 N.PO. NEARSID
- L 4 I 128 69.92N 9443W 23 \*\*\* \*\*\* 070417 5=20=67 LUNAR ORB 41. 610HH 86W NONE 3369K 5522951 171 1:0 12 -, 9

  LAH-NAD-= 71.689N 10.32W 5WING= 347. PHASE= 80. ENIS-ANG.= 3. CAM-RAD-= 5108-2 KM. SUN AZH=122.3

  LAC 3 PHILOLAUS,B 1 LAC 4 METON, DESIT : LAC 12 PLATO-ALPI : LAL 11 J.HERSCHEL.JURAS, ROUGUER 6 LAC 2 ANAXIMENES, PAS
- L 4 1 134 46.31N 18.14W 24 \*\*\* \*\*\* 182759 5-20-67 LUNAR ORB H1. 610HH 86W NONE 2878K 4718033 53 3.7 21 -.26

  CAM.NAD.= 42.8UN 25.30W SWING= 218. PHASE 74. EMIS.ANG.= 10. CAM.RAD.= 4617.2 KM. SUN AZH=113.2

  EASTERN PART OF LAC 24 SINUS IRIDU ; LAC 25 CASSINI.ALP ; LAC 12 PLATO.ALPI ; LAC 40 TIMOCHARIS.LAMBERT 6 LAC 3 PHILOLAUS.



- L 4 2 140 71-46N 16-31W 25 \*\*\* \*\*\* 070801 5-21-67 LUNAR ORB LO.F#80HN BGW NONE 3355K 41937500 117 1-2 13 -CAN-HAD.\*\* 72-21N 22-53W SWING= 297. PHASE\* 816 ENTS-ANG.\*\* 3. CAM-RAD.\*\* 5074-2 KM. SUN AZH±127-7
  LAC 3 PHILOLAUS.B 1 W>1/2 MOUN SPHERE I LAC 38 SELEUCUS.5 1 LAC 1 Napole Nearside Byrd.PFARy >80 N & LAC 16
- L 4 1 152 69\*78N 29\*6IW 27 \*\*\* \*\*\*\* 071044 5=22+67 LUNAR ORB HI: 610MH BGW -- NONE 3345K 5483607 142 1\*5 13 -\* Cam-Nad = 72.22N 34\*79W SWING= 32I. PHASE= 81. EMIS-ANG.= 4. CAM-RAD.= 5084.2 KM- 5UN AZH±126.4 LAC 3 PHILULAUS,BARROW 1 LAC 2 ANAXIMENES,PASCAL 1 LAC 11 J.HERSCHEL,JURAS,BOUGUERG LAC 1 N.POLE NEARSI
- L 4 2 152 69.78H 29.61W 27 \*\*\* \*\*\* 071U44 5-ZZ-67 L<sup>U</sup>NAR ORB LO.F #80HM B&W NONE 3345K 41812500 142 1.5 13 -.\*

  CAM.HAD. 72.23N 34.79W 5WING 321. PHASE BI. EMIS.ANG. 4. CAM.RAD. 5084.2 KM. SUN AZH.126.4

  LAC 3 PHILULAU5.B | W>1/2 MOON SPHERE | LAC 39 ARISTARCHU | LAC 6
- L 4 | 176 69:97N 54:78W 31 \*\*\* \*\*\* 0:00 071413 5-24-67 LUNAR ORB H<sup>1</sup>: 610MM B6W None 3354K 5498361 142 1:5 13 --Cah:Nau: 72:28d 59:77W 5W1NG= 320: Phase= 81: Emis:Ang== 4: Cah:Rau: 5093:2 Kh: 5UN Azh=125:7 Lac 2 anaximenes:Pascal 1 Lac 3 Philolaus:Barrow 1 Lac 10 Babbage,N.Procelarm, 6 Lac 11 J.Herschel,J
- L 4 1 177 38+81N 67-86E 31 \*\*\* \*\*\* 094528 5-24-67 LUNAR ORB H1. 610MM B6W NONE 5492K 9003279 29D 7.6 15 -- CAM-HAD-- 33.96N 99.33E SWING- 282. PHASE 108. EHIS-ANG-- 33. CAM-RAD-- 7231-2 KH. SUN AZH-258-7 LAC 28 GAU55-ME55 F W1/4 HUONS SPHERE F LAC 3 PHILOLAUS-B 1 LAC 4 METON-DESITTER 6 LAC 44 CLEOHEDES, H-C
- L 4 1 190 70-34N 63-47W 33 \*\*\* \*\*\* 071553 5-25-67 LUNAR ORB HI 610MH 86W NONE 3373K 5529508 125 1+9 14 -- CAM-NAD-- 72-71N 72-45W SWINGE 306: PHASE= 82. EHIS-ANG.- 6. CAM-RAD-- 5112-2 KM- 5UN AZHRIZ9-2 LAC 2 ANAXIMENES-PASCAL 1 LAC 10 BABBAGE, N. PROCELARM. 1 LAC 3 PHILOLAUS-BARROW 6 LAC 9 CREMONA

TOTAL PHOTOS IN THIS GROUP # 15

·6 12 ~ \*

ALTI SCALE AT TILT SUN SIDE.

AND FILTER TUDE PRIN. AZ ANG. ANG. FWD.

HIS HAG FRIPHUTO PRINIPT, ORB GET GHT M-DA-YR

. = DEGRADED PHOTOS. SESENALHOST UNUSABLE PHOTOS. THESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER HEAR! TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZI 6 VERTICAL TO CAHERA AXIS B = APPROXIMATELY REXT TO HAGH, BEBRACKET HOUNTED! G CAH, ON GROUND (-),(\*),( ), OR(U) = NO INFO SW.A. . SUPER WIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HSB= HASSELBLAD: MAURE HAURER: ZP.ZB.ZS = ZEISS LENS(PLANAR, BIOGEN, SONAR) 1 FOCAL LENGTH (HR) & MAX.F=OPEHING CAMERA-LENS AS FOLLOWS: 10\* AS EXPOS SPEED = 1/1000 COR 02 TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINAG. AT PP 1F ALT NOT O.D

FILMLEXPOSURE

OR LAT. # TIMES-HR M SEC FR. HEN.HI PT. TYPE LONG. ( :ESTIMATED) VERT MAIN K#KH. 92 71-17N 32-23E 17 000 4600 065357 5-17-67 LUNAR ORB LO-F-BOHN BOW - NONE 3457K 43212500 129 -6 12 ~ , 9[ CAP - RAD == 5196 + 2 KH SUN AZH=127 + 4 PHASER 77. EHIS.ANG. 2. 5W1NG= 306+ & LAC 18 TIKHOV CAM.NAD. = 71.92N 29.48E

CAMERA-LENS OR

SENSOR

LAC 4 METON, DESIT : LAC 7 KARPINSKY : LAC 41 APENNINES. /: LAC 44 CLEOMEDES, M. CRI. - NONE 3495K 5729508 214 56 70.35N 68.44E 11 0.00 064639 5-14-67 LUNAR ORB H1. 610HH BEW. SUN AZHR126+8 CAH . RAD . = 5234 . 2 KH . PHASE# 78. EHIS.ANG.# 2. 541NG= 25 . & LAC 1 N. POLE NEARSID CAM-HAD-= 71-63N 71-06E

LAC 5 PETERMANN, I LAC 4 METON DESIT : LAC 14 ENDYMION S ! LAC 15 M. HUMBOLTIANUM .7 12 - 9 - NONE 3488K 5718033 239 L 4 1 68 70-93N 53-66E 13 04\* 064827 5-15-67 LUNAR ORB HI. 610HM B6W CAH+RAD+× 5227+2 KH+ SUN AZH×124+4 PHASE 78. EHIS.ANG. 2. LAC 4 METON, DESIT : LAC 5 PETERMANN, : LAC 14 ENDYMION & 1 LAC 1 N. POLE NEARSIDE BYRD PEARY >80 N & LAC 146 N. POLE FARSI

NONE 3488K 43600000 239 •7 12 -•11 685 70.93N 53.66E 13 04\* 9800 064827 5-15-67 LUNAR ORB LO.F=80HM B&W SUN A78×124+4 CAH . RAD . . 5227 . 2 KM . PHASE= 78. EMIS.ANG.= 2. 5พ I NG = 5 ก. LAM-NAD-# 71-63N 57+12E & LAC 4 METON DESITTER DEGRADED NEGATIVE

- NONE 3479K 5703279 147 80 70 45N 46 09E 15 \*\*\* \*\*\* 065107 5-15-67 LUNAR ORB HI. 610MM 86W SUN AZH=128.9 CAH . RAD . = 5218 . 2 KH . PHASE 79. EHIS.ANG. 3. & LAC 1 N.POLE NEARSID 5w NG= 323. CAN-NAD . 71.89R 43.34E LAC 4 METON, DESIT : LAC 5 PETERHANN. : LAC 13 ARISTOTE. : LAC 14 ENDYHION, STRABO .8 13 NONE 3479K 43487500 146

805 70.45N 46.09E 15.000 0000 065107 5416467 LUNAR ORB LO.FE80MM B&W SUN AZH=128+9 CAMeRADes 5218.2 KHe PHASE 79. ENIS.ANG. 3. 5w1NG= 323. CAM-NAD = 71-89N 43+34E & G>1/2 HOON SPHERE I LAC 4 METON DESITTER DEGRADED NEGATIVE

- NONE 3457K 5667213 129 92 71:16N 32:23E 17 \*\*\* \*\*\* 065357 5-17-67 LUNAR ORB HI. 610MM BOW CAMeRADem 5196.2 KMs SUN AZHH127.4 L 4- 1 CAM.NAD. = 71.492N 29.48E SWING= 306. PHASE= 79. EMIS.ANG. = 2. 6 LAC 1 N.POLE NEARSID LAC 4 METON, DESIT | LAC 5 PETERMANN, 1 LAC 3 PHILOLAUS, B 1 LAC 13 ARISTOTE., M. FRIG

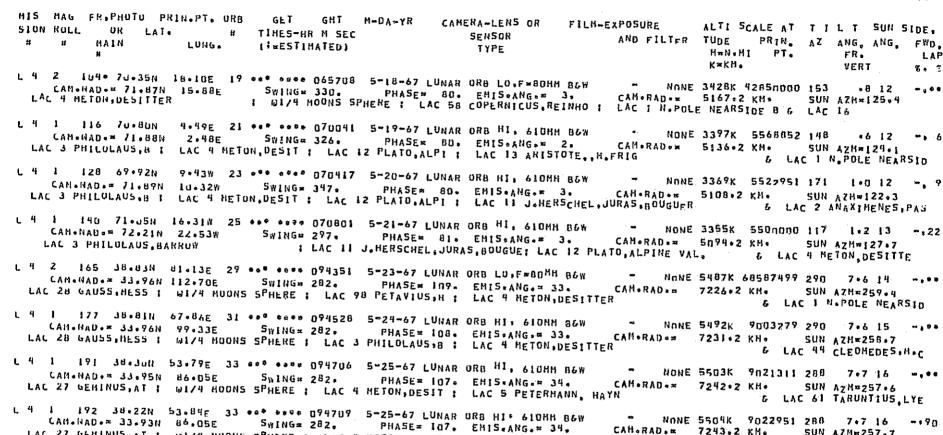
e4 5500 065708 5=18-67 LUNAR ORB HI: 610MH BGW -- NONE 3428K 5617672 153 - 07 12 5W1NG# 33U: PHASE# 80: EMIS:ANG:# 3: CAM:RAD:# 5167:2 KH: 5UN AZH#125:4 L H | 1 1 1 1 7 1 4 35 N | 18 4 1 GE | 19 8 4 8 8 8 9 9 9 6 6 5 7 0 8 5 7 1 8 8 6 7 LUNAR ORB HI & 6 1 DNM B 6 W & LAC I N.POLE NEARSID CAM-HAD-# 71-878 15-98E LAC 4 NETGR-DESIT 1 LAC 3 PHILULAUS.B : LAC 13 ARISTOTE. : LAC 12 PLATO.ALPINE VAL.

TOUR HE SO. I TYMERIO REPRODUCIBILITY OF THE

LAC 27 GEHINUS, AT : WI/4 HUONS SPHERE : LAC 4 HETON, DESIT : LAC 5 PETERMANN, HAYN

CAH. RAD. # 7243.2 KM. SUN AZNH257.7

& LAC 61 TARUNTIUS, LYE



TOTAL PHOTOS IN TRIS GROUP \*

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE CAMERA-LENS OR MIS MAG FRIPHUTO PRINIPT. ORB GET GNT M-DA-YR SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SION ROLL OR LAT. H TIMES-HR M SEC H¤N•H1 PT• FR. LAP (FRESTINATED) TYPE Ħ MAIN LUNG. K=KM. VERT 8 . 3 - NONE 3494K 5727869 188 .8 14 -.90 425 70.09N 84.0RE 9 004 0040 064506 5-13-67 LUNAR ORB HI. 610HH 86W 5WING= 357. PHASE= 78. EHIS:ANG.= 2. CAH:RAD.= 5233.2 KH. SUN AZH=130.1 CAM-NAD-= 71-60N 84-75E LAC 15 M.HUMBOLTIANUM & LAC 1 NePOLE NEARSID DEGRAPED NEGATIVE : LAC 5 PETERMANN. : LAC 6 425 70.09N 84.08E 9 000 000 064506 5-13-67 LUNAR ORB LU\*F=80MM B6W - NONE 3494K 43675090 188 •B 14 1 4 2 CAM-RAD. = 5233.2 KM. SUN AZHE130.1 541NG= 357. CAM-HAD. = 71.60N 84.75E PHASE 78. EMIS.ANG. 2. & LAC 5 PETERHANN, HAYN DEGRADED NEGATIVE

- L 4 2 56% 70°36N 68°44E 11 °°° °°°° 064639 5-14-67 LUNAR DRB LO:F=80MM BGW NONE 3495K 436875NO 215 °8 13 --Can=Nad== 71°63N 71°06E Swing= 25° Phase= 78° Emis•ang== 2° Cah=rad== 5234°2 km° Sun a7H=126°8 Degraded negative & lac 5 petermann; hayn
- L 4 1 68 70.93N 53.66E 13 0.0 0.0 064827 5-15-67 LUNAR OR8 HI: 610MM B&W NONE 3488K 571m033 239 07 12 -.90 CAK.NAD. 71.63N 57.12E 5WING= 50. PHASE= 78. EMIS.ANG. 20 CAM.RAD. 5227.2 KH: SUN AZM=124.4 LAC 4 METON,DEST ; LAC 5 PETERMANN. ; LAC 14 ENDYMION;5 ; LAC 1 N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 146 N.POLE FARSI
- 4 2 86 41...2N 31.24E 16 0.00 0.00 181300 5-16-67 LUNAR ORB LO.F¤BOHM B6W NONE 2956K 36950070 122 1.09 24 -196 Can.Nad.∞ 42.80N 27.61E Swing= 286. Phase= 71. Emis.ang.≈ 5. Cam.Rad.∞ 4695.2 km. Sun AzH=111.7 Lac 26 Eudoxus.bu ; μ>1/2 Moon 5Phere ; Lac 16 ; Lac 5 Peterhann, hayn & lac 44 Cleohedes.M.C



5	LAC 5 PETERMANN	N. HAYN
HAS MAG FR.PHI SION HOLL OR # # MAIN #	LAT. # TIMES-HR H SEC	TYPE KEKHIO VERT So S
	33.96N 99.33E SWING# 282.	29 5-24-67 LUNAR DRB LO-F#BDHH B6# - NONE 5492K 68649999 290 7+6 15 -,** PHASE# 108+ EMISHANG= 33+ CAMHRAD+# 7231+2 KM+ SUN AZM#258+7 SPHERE : LAC 6: TARUNTIUS_LYELL : LAC 99 MUMBDLT_GLBBS & LAC 5 PETERMANN.
CAL MAD - F	is one baloner Sainga 282.	D6 5-25-67 LUNAR ORB HI. 6 JOHN BEN - NONE 5503K PO21311 288 7.7 16 - 0.00 Phase= 107. Emis.ang.or 34. Camorador 7242.2 km. Sun Azm=257.6 C 4 meton.desit i lac 5 petermann, hayn 6' lac 61 taruntius.lye
fan Nan -	12 Gard Oct. Off Swilliam 282.	C 4 HETON DESIT   LAC 5 PETERMANN HATN 6 LAC 51 TARGETTO TO
	on and on the Suites 91.	EU3 8-06-67 LUNAR ORB LO-F=80HH B&W - NONE 2647K 33087500 286 9+7 8++ PHASE= 107. EHIS-ANG-= 25. CAM-RAD 4386-2 KM- SUN AZH#259-5 INAH No HEHISPHE   LAC 1 NoPOLE NEARSIDE BYRD-PFARY >80 N & LAC 5 PETERHANN, HAY
	no and he are Smiths Of	INAR N. HEHITSPHE : LAC I N. POLE NEARSIEDE BYRD. PFARY >80 N & LAC 5 PETERHANN. HAT
	En den de ense Suttice Od.	208 8-06-67 LUNAR ORB LO-F=80MM B&W - NONE 2650K 3312500O 286 9.7 890 , PHASE= 107. EM1S-ANG.= 25. CAM-RAD.= 4389-2 KM. SUN AZM=259.7 UNAR N. HEMISPHE : LAC I N.POLE NEARSIDE BYRD.PFARY >80 N 6 LAC 5 PETERMANN. HAY
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ZII B-06-67 LUNAR ORB LO-F=80MM B&W - NONE 2652K 3315m000 286 9-6 B -,90 , Phase= 107- Emis-Ang.= 25- Cam-rad-= 9391-2 km- sun azm=259-8 JNAR N- Hemisphe : Lag I N.Pole Nearside Byrd.Pfary >80 N & Lag 5 Petermann, Hay
	The many seasons and seasons of the	214 8-06-67 LUNAR OR8 LO.F.BOHM 85W - NONE 2654K 33175070 286 9.6 890 . PHASE= 107. EHISHANG-W 25. CAM-RAD-W 4393-2 KM- SUN AZM#259-8 UNAR N. HEHISPHE : LAC I N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 5 PETERHANN, HAY
	Programme of August Superstant Office	216 8-06-67 LUNAR ORB LO-F#80NH B&W - NONE Z656K 33200000 285 9.6 890 . PHASE= 107. EMIS-ANG.# 25. CAMERAD.# 4395.2 KM- SUN AZM#259.9 UNAM No HEMISPHE I LAC I N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 5 PETERMANN, HAY
		Z19 8-06-67 LUNAR ORB LO.F.#80MM B&W - NONE Z657K 33Z1Z50O Z85 9+6 %+90 • PHASE LO7+ EMIS-AMG.= Z5+ CAMERADE* 4396-2 KM+ SUN AZM#Z60+0 UNAR N+ HEMISPHE : LAC I N.POLE NEARSIDE BYRO.PFARY >80 N 6 LAC 5 PEYERMANN, HAY
<del>-</del>		222 G-06-67 LUNAR ORB LD»F±80HH B&W - NONE 2459K 33:237500 285 9+6 B -+90 - PHASE= 107- EMIS-ANG.= 25- CAM-RAD-= 4398+2 KM+ SUN AZH=260+1 UNAH N- HEMISPHE : LAC I N.PULE NEARSTOE BYRO-PFARY >80 N 6 LAC S PETERMANN, HAY

HIS MAG FR.PHUTU PRIN.PT. ORB

GL T

GMT

M-DA-YR

TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS (-).(+).( ). ORIU) = NO INFO = APPROXIMATELY .. NEXT TO MAGE. BEBRACKET MOUNTED: G. CAH. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. . SUPER NIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HSB & HASSELBLAD! HAURER! ZP, ZB, ZS = ZEISS LENS (PLANAR, BIOGEN, SONAR): FOCAL LENGTHIMM) & MAX.F-OPENING 10+ AS EXPOS SPEED # 1/1600 (OR +# TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOHETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1,XXX ON ORIGINES, AT PP IF ALT NOT OF

FILM-EXPOSURE

ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. MAIN LUNG. ( SESTIMATED) TYPE HONOHI PT. FR. LAP K OK M . VERT R. R 23+ 43+72H 99+00E 6 +++ ++++ 180354 5-11-67 LUNAR ORB LO.F=80HH 86H - NONE 2983K 37287500 78 1+9 27 CAH-HAD-= 43-15N 94.60E SWING= 241. PHASE= 67. EMIS-ANG.= 5. CAM-RAD-= 4722-2 KM. SUN AZHE:18.3 -.78 LAC 29 BRUNG FABR : 8>1/2 HOON SPHERE : LUNAR N. HEHISPHE : LAC 81 ANSGARIUS.W.M.SHYTHI & LAC 6

CAMERA-LENS OR

425 70-69N 84-08E 9 ... 9 ... 504506 5-13-67 LUNAR ORB HI. 610HM R6W CAM-HAD- 71-6UN 84-75E SWING 357. PHASE 78. EMIS-ANG. 2. " NONE 3494K 5727869 188 DEGRADED NEGATIVE : LAC 5 PETERHANN, : LAC 6 CAM-RAD .. 5233+2 KM. SUN AZM=130+1 I LAC IS H.HUMBOLTIANUM & LAC I N.POLE NEARSID

£ 4 2 98 4u-97N 18+53E 18 \*\*\* \*\*\*\* 181626 5-17-67 EUNAR ORB LO+F=80MM 86# CAM-NAD-# 42-BEN 14-21E SWING# 282. PHASE# 72. EMIS-ANG.# 6. " NONE 2938K 36725000 118 2.2 23 -.27 LAC 26 EUDOXUS, BU 1 W>1/2 MOON SPHERE : LAC 44 CLEONEDES, ; LAC 78 THEOPHILUS, KANT CAMeRADes 4677-2 KH- SUN AZM#111-3 & LAC I N.POLE NEARSID

L 4 2 103 41.82N 11.28E 19 ... ... 06[816 5=18=67 LUNAR ORE LO.F\*80MM B&W \* NONE 2927K 36587500 107 1+7 22 CAM. HAU. = 42.76N 7.57E SWINGE 272. PHASE= 72. EMIS.ANG.= 5. CAM-RAD- 4666-2 KM- SUN AZM=110-7 LAC 26 EUDOXUS.BURG 1 9>1/2 HOON SPHERE I LAC I N.POILE NEARSIDE BYRD. PEARL LAC 6

L 4 2 123 1 13N 162 38E 22 ... ... 232754 5-19-67 LUNAR ORB LO.F=80MM B&W NONE 6151K 76887499 44 Sning= 64. PHASE # 111. EMIS.ANG. = 2. CAH+RAD+= 7890+2 KM+ SUN AZH=271+1 LAC 67 SPENCER | LAC 131 PRANDTL | LAC 6 I EARTHS SPHERE & LAC R2 SE.H.SHYTHI.P

L 4 2 152 69+7dN 29+61W 27 \*\*\* \*\*\*\* 071044 5=22=67 LUNAR ORB LO+F=80MM B6W NONE 3345K 41812500 142 1.5 13 +.90 CAM. NAU. # 72.23N 34.79W SWING# 321. PHASE# 81. LMIS.ANG. # 4. LAC 3 PHILULAUS.R : W>1/2 HOON SPHERE : LAC 39 ARISTARCHU : LAC 6 CAH-RAD-# 5084+2 KH+ SUN A7H#126+4 & EAC 15 M.HUNBOLTIANU

L 4 2 170 41+78N 59+60W 3U \*\*\* \*\*\* 183518 5=23-67 LUNAR ORB LO.F=80MM 86W - NONE 2871K 35887500 108 2+2 20 -+19 CAM-HAD-# 43-60N 64-22W SWINGW 271. PHASE= 76. EHIS.ANG.= 6. CAM.RAD.= 4610-2 KM. SUN AZM=107.7 LAC 23 RUNKER, SHARP 1 8>1/2 MUON SPHERE I LAC 73 RICCIOLI NE ORIENTAL 6 LAC 6

TUTAL PHOTOS IN THIS GROUP ...

ALTI SCALE AT TILT SUN SIDE.

THESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: \*\* DEGRADED PHOTOS, \*\* ALMOST UNUSABLE PHOTOS,

TILT ANGLES; AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-).(+).(1). ORIO) = NO INFO = APPROXIMATELY NEXT TO MAGE, B=BRACKET MOUNTED; G= CAM. ON GROUND

CAMERA-LENS AS FOLLOWS: SW.A. = SUPER WIDE ANGLE LENS: EKTR=EKTAR Z.0 LENS:

HSB= HASSELBLAD; HAURE MAUREN: ZP.ZB.ZS = ZEISS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTH(HM) & MAX.F=OPENING

LUA AS EXPOS SPEED = 1/1000 for \*= TWO ZERUS;

FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1/XXX ON ORIG.NFG. AT PP TF ALT NOT O.CO

FILH-EXPOSURE

SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MALIN LUNG. (imestinated) TYPE Men.MI PT. FR. LAP K=KH. VFRT 8. 9 L 4 2 92 71-17N 32-23E 17 \*\*\* \*\*\* 065357 5-17-67 LUNAR ORB LO.F=BOHM BG# - NONE 3457K 43212500 129 +6 12 -.90 CAM-NAU = 71.92N 29.48E Swing= 306. PHASE# 79. EMIS.ANG. 2. CAM.RAD. 5196.2 KM. SUN AZHEL27.4 LAC 4 METON, DESIT : LAC 7 KARPINSKY : LAC 41 APENNINES, : LAC 44 CLEOMEDES, M. CRIS. & LAC IS TIKHOV L 4 2 116 70-80N 4-49E 21 -\*\* -\*\*\* 070041 5-19-67 LUNAR ORB LO.F=80MH 86H NONE 3397K 42462500 148 •6 12 CAM-NAD-# 71-88N 2-48E SWING= 326. PHASE= 80. EMIS.ANG.= 2. CAM+RAD+# 5136+2 KH+ SUN AZM=124+1

LAC 3 PHILULAUS.B : LAC 7 KARPINSKY : LAC 41 APENNINES. : LAC 1 N.POLE NEARSIDE BYRD.PEARY >80 N 6 LAC 17

CAHERA-LENS OR

TOTAL PHOTOS IN THIS GROUP .

HIS HAG FR.PHOTO PRIN.PT. ORB

GET

GHT H-DA-YR

THESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: " # DEGRADED PHOTOS. SE ALMOST UNUSABLE PHOTOS. TILI ANGLES: AZIMUTH OF DIRECTION OF TILTIAZY & VERTICAL TO CAMERA AXIS 1-).(+),( ). OR(U) = NO INFO & = APPROXIMATELY NEXT TO MAGH, BEBRACKET MOUNTED: GE CAM. ON GROUND CAMERA-LENS AS FULLOWS: SW.A. - SUPER WIDE ANGLE LENS: EKTREEKTAR 2.8 LENS! HISB# HASSELBLAD: Maure Maurer: ZP.Zb.ZS # ZEISS LENS(PLANAR.BIOGEN, SONAR): FOCAL LENGTH(HM) & MAX\_F\_OPENING IU+ AS EXPUS SPEED # 1/1000 for ## TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILONETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT 0.0

MIS MAG FROPHOTO PRINAPT. URB CAMERA-LENS OR GET GMT M-DA-YR FILH-FXPOSURF ALTI SCALE AT TILT SUN SIDE . SION HULL OR EAT. # SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FHD. TIMES-HR H SEC HA1N LUNG. ( =ESTIMATED) TYPE M=NaM] PT. FR. K=KH. VERT NONE 2647K 4339344 285 9+7 8 5 59.69N 111.74W 2 \*\*\* \*\*\* 1122J3 8-06-67 LUNAR ORB HI, 619HM B&W CAM-NAU . = 58.97N 61.16h SWING # 90. PHASE 107. EMIS.ANG. = 25. CAMeRADes 4386+2 KM+ SUN A7M=259+5

6 59.63N 111.66W 2 \*\*\* \*\*\*\* 1122U5 8-86-67 LUNAR ORB #1. AIOMM BGW NONE 2648K 4340984 285 9+7 8 -- 90 CAM-NAD. = 58.94N 81.15# Shings 90. PHASE = 107. EHIS.ANG. = 25. 4387 . Z KM . SUN AZM#259+6 CAH+RAD+# LAC 20 COULOMB : wi/4 MOONS SPHERE : LAC 21 N.GERARD.B : LAC 9 CREMONA & LAC 36 RONTGEN LOREN

7 59.56N 111.56W 2 \*\*\* \*\*\*\* 1122UB 8-06-67 LUNAR ORB H1. 610MM B6W CAM-HAD. = 50.91N 81.14W SWING = 9D. PHASE = 107. EMIS.ANG. = 25. LAC 20 COULOMB : WI/4 MOONS SPHERE : LAC 21 N.GERARD.B : LAC 9 CREMONA

8 59.49N 11:.50W 2 \*\*\* \*\*\* 112211 8-06-67 LUMAR ORB HI, 310MH B6W CAN-HAD. = 58.88N BL-13W Swing= 90. PHASE= 107. EMIS.ANG.= 25. LAC 26 COULONS : WI/Y MOONS SPHERE: LAC 21 Nogerardon : LAC 9 CREMONA

LAC 20 COULOMB : W1/4 MOONS SPHERE: LAC 21 N.GERARDAR : LAC 9 CREMONA

9 59\*43N 111\*43h 2 \*\*\* \*\*\* 112213 8=06-67 LUNAR ORB HI. 610MM 86h CAH . NAD . = 58.85 N 81.12 N SWING 89. PHASE = 107. EMIS . ANG . = 25. LAC 20 COULUMB : WI/4 MOONS SPHERE : LAC 21 N.GERARD. B : LAC 9 CREMONA

L 5 1 10 59-37N 111-35W 2 \*\*\* \*\*\* 112216 0-06-67 LUNAR ORB HI. 610HM R6W CAN-NAD = 58.82N 81.11m SHING= 89. PHASE = 107. EMIS.ANG. = 25. LAC 20 COULONS : GIVE MOONS SPHERE : LAC 21 N.GERARD.B : LAC 9 CREMONA

11 57.Jun 111.28w 2 ... 400 112219 8-06-67 LUNAR ORB HI. 610MM BEW CAH-NAD-= 58-79% B1-10W SWING= 89- PHASE= 107- EMIS-ANG-= 25-LAC 20 COULOMB : WI/4 MOONS SPHERE : LAC 21 N.GERARDIB : LAC 9 CREMONA

L 5 1 12 59.244 111.20W 2 \*\*\* \*\*\* 112221 8-06-67 LUNAR ORB H1. 610MM 86W CAN-NAD = 58.76N 81.09W SWING= 89. PHASE= 107. EMIS-ANG.= 25. LAC 20 COULOND 1 WI/4 MUONS SPHERE : LAC 21 N.GERARD.B : LAC 9 CREMONA

& LAC 36 RONIGEN LOREN

NONE 2650K 4344262 285 9+7 8 -- 90 CAM-RAD . 4389-2 KM- SUN AZM-259-7 & LAC 36 RONTGEN LOREN

NONE 2652K 4347541 285 9.7 8 -.90 SUN A7H=259.8 CAM . RAD . m 4391 .2 KM. & LAC 36 RONIGEN LOREN

NONE 2654K 4350820 285 9+6 8 -.90 CAM+RAD+= 4393+2 KM+ SUN AZM=259+9 & LAC 36 RONTGEN LOREN

NONE 2655K 4352459 285 9.6 8 -.90 4394+2 KH+ SUN A7M=25949 & LAC 36 RONTGEN LOREN

NONE 2657K 4356738 284 9.6 8 -.90 CAM-RAD -- 4396-2 KM-SUN AZM#260+D & LAC 36 RONTGEN LOREN

NONE 2659K 4359016 284 9.6 8 -.90 CAM-RAD ... 4398-2 KH+ SUN AZH#260-1 & LAC 16 RONTGEN LOREN

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MIS MAG FR.PHOTO PRIN.PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. ( mESTIMATEDI TYPE MEN. MI PT. FR. LAP K=KH. VERT 8 . 7

- L 5 1 5 59-69N \$11-74# 2 \*\*\* \*\*\* 1\$2203 8-06-67 LUNAR ORB HI. 610MM B6# NONE 2647K 4339344 285 9.7 8 -.\*\*

  CAM-NAD-= 58-97N 81-16# SWING= 90\* PHASE= LO7\* EMIS\*ANG\*= 25\* CAM\*RAD\*= 4386\*2 KM\* SUN A7M=259\*5

  LAC 20 COULDMB 1 W1/4 MOONS SPHERE; LAC 21 N\*GERARD\*B; LAC 9 CREMONA & LAC 36 RONTGEN LORFN
- . 5 i 6 59.63n 111.66W 2 \*\*\* \*\*\* 1122U5 8-06-67 LUNAR ORB HI, 610MM B&W NONE 2648K 43409R4 2R5 9\*7 8 -\*90 Camenade= 55.94n 81.65W Swing= 90\* Phase= 107\* Emis\*ang== 25\* Camerade= 4387\*2 km\* 5UN azm=259\*6 Lac 2u Cuuluma ; wi/4 muons sphere; lac 21 n\*Gerard=8 ; lac 9 cremona & lac 36 ronigen loren
- L S I 8 59°49N 111°50W 2 \*\*\* °°\*\* 112211 8\*06\*67 LUNAR ORB H<sup>1</sup>° 61DHM 86W " NGNE 2652K 4347541 285 9°7 B -°90 Lamonado# 58°88N 81°13W 5Wing# 90° Phase# 107° Emisoango# 25° Camorado# 4391°2 km sun azm#259°8 Lac 20 Coulomb : Wi/4 Moons 5Phere ; lac 21 Nogerardo#B ; lac 9 Cremona 6 lac 36 Rontgen loren
- L S 1 9 59.43N 111.43W 2 \*\*\* \*\*\* 112213 8-06-67 LUNAR ORB HI. 610MM B6W CAM-NAD. # 58.85N 81.12W 5WINGE 89. PHASE # 107. EMIS.ANG. # 25. LAC 20 COULOMB 1 W1/4 MOONS SPHERE ; LAC 21 N.GERARD. B 1 LAC 9 CREMONA
- L 5 1 10 59+37H 111-35H 2 ++\* ++\* 112216 8-06-67 LUNAR ORB HI. 610MM BGW CAM+HAD+\* 58+82H 81-11W 5WING= 89+ PHASE\* 187+ EMIS+ANG-\* 25+ LAC 20 COULUNB 1 WI/4 MOONS SPHERE 1 LAC 21 N.GERARD+B 1 LAC 9 CREMONA
- L 5 | | 11 59\*360 111\*280 | 2 \*\*\* \*\*\*\* | 112219 | 8=06=67 LUNAR ORB HI: 610MM R6W CAM\*\*MAD\*\* 58\*79N | 81\*10H | SWING\*\* 89\* | PHASE\*\* 107\* | EMI5\*ANG\*\* 25\* LAC 20 COULOMB | | WI/4 MOONS SPHERE | LAC 21 N\*GERAND\*B | LAC 9 CREMONA
- L 5 1 12 59-24H 111-20W 2 ++\* ++\* 112221 8-06-67 LUNAR DR8 H<sup>1</sup> + 61DHM B&W CAM-HAD-= 58-76H 81-09W SWING= 89 PHASE= 107 EHIS-ANG-= 25 LAC 20 COULUMB : WI74 MUDNS SPHERE : LAC 21 R+GERARD+B : LAC 9 CREMONA

- ► LAC 36 RONTGEN LOREN

   NONE 2654K 4350820 285 9.6 8 -.90
  CAM-RAD-= 4393-2 KM- SUN AZM=259.9

  6 LAC 36 RONTGEN LOREN
- \*\* NONE 2655K 4352459 285 9.6 8 \*\*,90 CAM\*RAD\*\* 4394\*2 KM\* SUN A7\*\*259\*9 6 LAC 36 RONTGEN LOREN
- " NONE 2657K 435573B 2R4 9.6 B -.90
  CAM-RAD-# 4396-2 KM- SUN AZM=260-0
  6 LAC 36 RONTGEN LOREN
- NONE 2659K 4359G16 ZR4 9.6 8 -,90
  CAM-RAD-# 4398.2 KH. SUN AZM=260.1
  6 IAC 36 RONTGEN LOREN

MIS HAG FRIPHUTU PRINIPT, URB GET GHT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILI SUN SILE, PRIN. AZ ANG. ANG. FWD. SION ROLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE TYPE MAIN LUNG. (ImESTIMATED) MEN.ME PT. FR. K=KH. VERT

TOTAL PHOTOS IN THIS GROUP =

0

ALTI SCALE AT TILT SUN SIDE.

AND FILTER TUDE PRIN. AT ANG. ANG. FOD

- NONE 2869K 33362500 289

MIS MAG FR. PHOTO PRIN. PT. ORB

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GET GMT M-DA-YR

5W.A. = SUPER WIDE ANGLE LENS: EKTREEKTAR 2.8 LENS: MAUR MAURER: ZP.ZB.ZS = ZEISS LENS(PLANAR, BIOGEN, SONAR); FOCAL LENGTHINH) & MAX.F-OPENING IL. AS EXPOS SPEED \* 1/1000 (OR .= TWO ZEROS) LULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGINES. AT PP IF ALT NOT B.

FILM-EXPOSURE

SENSOR TIMES-HR M SEC LA FR. H=N.H1 PT. OR LAT. # SION RULL TYPE (ImESTIMATED) VERT LUNG. z m K M . MIAN - NONE 2477K 33462500 238 1+3 20 -+\* E 4 2 126 12•87N 23•85¥ 23 ••• •••• 055348 5=20+67 LUNAR ORB LO•F≈8∏HH B6\$ CAM-NAD.= 13.94N 21.27W SWINGE 53. PHASE 68. EMIS.ANG. 3. CAM-RAD. 4416.2 KM. SUN AZM. 94.0 1 LAC 111 WILHELM, ELGER, MEE & LAC IN BARRAGE, N. PR 1 0>1/2 MOON SPHERE LAC 58 COPERNICUS.REIMHOLD .5 19 -.7

CARERA-LENS OR

L 4 2 144 14.04N 41.778 26 ... . ... 175854 5-21-67 LUNAR ORB LO.F. 80MM 858 CAN-RAD-# 4408+2 KM+ SUN AZH# 94+3 SWING 94. PHASE 70. EHIS.ANG. 1. & LAC 26 EUDOXUS. BURG LAC 57 KEPLERIENC : W>1/2 MOON SPHERE : LAC 92 BYRGIUS.DA : LAC 10 BABBAGE, N. PROCELARM. CAM-NAD-= 13-9LH 41-01W - NONE 2669K 33367500 255 1+4 17 ---L 4 2 157 13-36N 56-27# 28 co\* \*\*\*\* 180116 5-22-67 LUNAR ORB LO.F#80MM 8&W

SWINGS 69. PHASES 70. EMIS-ANG. 3. CAM-RAD. 4408-2 KM. SUN AZM. 93-4 & LAC 25 CASSINITALPS LAC 56 HEVELIUS.R | W>1/2 HOON SPHERE ; LAC 92 BYRGIUS.DA ; LAC 10 BABBAGE.N.PROCELARM. CAM-NAD.= 43.91N 54-17W - NONE 2867K 4700000 115 2.2 20 -.

L 4 1 163 41+21N 53+38W 29 \*\*\* \*\*\* D63426 5-23-67 LUNAR ORB HI. 618MM B&W CAH+RAD+# 4606+2 KH+ SUN AZM#107+7 CAM-MAD. = 42-87N 57-71W SWING 279. PHASE = 76. EMIS-ANG. = 6. CENTRAL PART OF LAC 23 RUNKER, SHARP : LAC TO BABBAGE, N. PR : LAC TI J. HERSCHEL, J & NORTHERN PART OF LAC 38 SELEUCUS, SC - NONE 3346K 5485246 [36 1.4 13 -.

E 4 1 164 70-198 41-50W 29 --- 06-0 071247 5-23-67 LUNAR ORB HI. 610MM 86W CAM+RAD+= 5085+2 KH+ SUN AZH#126+8 PHASE BI. EHIS.ANG. 4. I LAC 3 PHILOLAUS.BARROW I LAC 10 BABBAGE N. PROCELARM. & LAC 11 J. HERSCHEL.J Salue 313. LAM-NAD-= 72-26N 47-118 LAL 2 ANAXIMENES, PASCAL - NONE 2871K 4706557 108 2+2 20 --

( 4 1 170 41+77% 59+60W 30 \*\*\* \*\*\*\* 183518 5-23-67 LUNAR ORB H1, 610MM 86W CAM-RAD-# 4610-2 KH+ SUN A7H=107-7 SWING= 271. PHASE= 76. EMIS.ANG.= 6. : LAC 22 SE.GERARD, BUNSEN, HARDIN: LAC 10 BABBAGE, N. PROCELARM. 6 LAC 11 J. HERSCHEL, J CAM-HAD+= 43+UON 64+22# LAC 23 RUMKER, SHARP NONE 2872K 4704197 116 2.0 19 --

E 4 1 175 41+29N 66+7BW 31 \*\*\* \*\*\*\* 063541 5-24-67 LUNAR ORB HI. BIOMM REW CAM+RAD+# 4611+2 KM+ SUN AZM#106+8 CAM-NAD == 42.86N 70-79% SWING= 280. PHASE= 76. EMIS-ANG.= 5. : LAC 10 BABBAGE , N. PROCELARH. 6 LAC 11 J. HERSCHEL.J LAC 22 SE-GERAND BUNSEN HARDING 1 LAC 23 RUMKER SHARP - NONE 3354K 549A361 142 1.5 13 -

L 4 | 176 69.97N 54.78W 31 \*\*\* 0.00 071413 5-24-67 LUNAR URB H<sup>1</sup>. 610MM B6W CAH+PAD+# 5893+2 KM+ SUN AZH#125+7 CAM . NAD . # 72.28N 59.77% SWING 320. PHASE 81. EMIS. ANG. # 4. ; LAC 3 PHILOLAUS.BARROW | LAC 10 BARBAGE.N.PROCELARM. & LAC 11 J.HERSCHEL.J LAC 2 ANAXIMENES, PASCAL - NONE 2874K 4711475 79 2.8 20 -

L 4 1 183 43.53N 71.02W 32 ... ... 1836U7 5-24-67 LUNAR ORB HI. 610MM 86W SUN AZME108.9 CAH+RAD+# 4613+2 KH+ SWING= 243. PHASE= 77. EHIS.ANG.= 8. EASTERN PART OF LAC 22 SE-GERARD, BUNSEN, HARDING ; LAC 23 RUNKER, SHA & LAC 37 STRUVE, DALTON

> 800a Si kantan Ma BELL OF STEELEN OF THE

ніб	MAG FR.PHOTO	PRIN.PT.	ORB GET	GMT	M 50				PAGE 20	
SION #		LONG.	# TIMES-H	H SEC	M-DA=YR	CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	ALTI SCALE AT T T TUDE PRIN. AZ MmN.MI PT.	ANG. ANG. FRD.	•
	"ESIGNIFIANT U	N 79.99# 8N 84.66W F LAC 22	33 *** *** Swings Se-gerard, bun	063636 273. Sen, har	5-25+67 LU Phasew Ding	UNAR ORA HI: 610MM 77. EM15.ANG.# 5 ! LAC 21 N GE	- COM	K#KH. ZA78K 4718033 110	VERT G. S	ħ
I	1 E90 7G+34 CAM+NAD+= 72+7 LAC 2 ANAXIMENE	1H 72.46m	SHING=			JNAR ORB HI, 610HM   B2. EMIS.ANG. 6 PROCELARM.   LAC	BEW - NONE	ABRAGE N. PROCELARM.	I+9	8

TOTAL PHOTOS IN THIS GROUP . 11

MIS MAG FR.PHUIU PRIM.PT. URB GET GMT H-DA-YR

MESTERN PART OF LAC 24 SINUS TRIBUR

CENTRAL PART OF LAC 24 SINUS TRIO : LAC II J.HERSCHEL.JURAS.BOUGUER

ALTE SCALE AT TILT SUN SIDE.

THESE THU SYMBULS NEXT TO HAIN OR PHOTO NUMBER MEAN: . . DEGRADED PHOTOS. . . ALMOST UNUSABLE PHOTOS. TILT ANGLES & AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS (+).(+).(). ). OHIU) = NO INFO - W = APPROXIMATELY NEXT TO HAGE BEBRACKET MOUNTED! G= CAM. OH GROUND CAMERA-LENS AS FOLLOWS: SW.A. . SUPER WIDE ANGLE LENS: EKTR.EKTAR 2.8 LENS: HSB= HASSFEBLAD: MAURE MAURER: ZP.ZB.ZS = ZFISS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTHIMM) & MAX.F=OPENING 10 AS EXPOS SPEED = 1/1000 (OR += TWO 2FHOS) FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMFTERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGINES, AT PP IF ALT NOT O.

FI: M-FXPOSURF

SION HOLL OR LAT. B TIMES-HR M SEC SENSUR AND FILTER TUDE PRING AZ ANG. ANG. FIND MAIN 1.0NG. ( = ESTIMATED) TYPE M=N+H1 PT. FR. 1.4 KEKH. VERT 8. £ 4 2 121 13.81N 16.80W 22 \*\*\* \*\*\* 175143 5-19-67 EUNAR ORB EO.F=80HM B6W " NONE 2682K 33525000 268 1.3 20 -.6 CAH-NAD-# 13-87N 14-69# SHING# 83. PHASE# 67. EMIS-ANG.# 3. CAH-RAD-# 4421-2 KM. SUN AZH# 74-4 LAC 58 CUPERHICUS REINHULD WE WATER THE LAC III WILHELM . E . LAC 96 ALTAI SCA I LAC II J. HER & LAC 27 GEMIN L 4 1 128 69-92N 9-43N 23 ++\* ++\* 070417 5-20-67 LUNAR ORB HI. 610HH 86W - NONE 3369K 5522951 171 1+0 12 --CAM-NAD- 71-89N 10-32W SWING= 347. PHASE= 80. EHIS-ANG. 3. CAM-RAD- 5108-2 KM. SUN A7H=122.3 LAC 3 PHILULAUS.B : LAC 4 METON. DESIT : LAC 12 PLATO, ALPI : LAC 11 J. HERSCHEL. JURAS. BOUGUFR & LAC 2 ANAXIMENES. PAS

CAMERA-LENS OF

- L 4 2 138 13.71N 36.45W 25 \*\*\* \*\*\* 055724 5\*21\*67 LUNAR ORB LO.F#80MM 86% NONE 2671K 33387500 263 1.3 18 -.6 Cah.nao.# 13.92N 34.43W Swing= 78. Phase# 68. Ehis.ang.± 3. Cah.rao.# 4410.2 kh. Sun azh# 94.0 LAC 57 REPLEK.ENC : W>1/2 MOON SPHERE : LAC 110 SCHICKARD : LAC 11 J.HERSCHEL.JURAS.BOUGUFR & LAC 26 EUDOKUS.BURG L 4 I 139 42 - 16N 28 - 25 W 25 \*\*\* \*\*\* 062940 5-21-67 LUNAR ORB HI - 610MM 86% - NONE 2872K 4788197 182 1-6 20 --7 CAH. NAD. # 42.81H 31.79H SWING # 267. PHASE # 74. EHIS. ANG. # 4. CAMeRADem 4A11+2 KM+ SUN AZH#108+6
- & LAC 12 PLATO ALPINE VAL. L 4 I 140 71:45N 16:31W 25 \*\*\* \*\*\* 0708n1 5-21-67 LUNAR ORB HI: 610HH REW NONE 3355K 550nnn0 117 1+2 13 -+2 CAM-NAD .= 12.21N 22.53N SWING # 297. PHASE # 81. EHIS.ANG. # 3. CAM+RAD+# 5094+2 KM+ SUN AZM#127+7 LAC 3 PHILOLAUS BARROW
- I LAC II J.HERSCHEL, JURAS. BOUGUE! LAC 12 PLATO, ALPINE VAL. & LAC 4 METON, DESITTE L 4 1 145 42-33N 33-70W 26 \*\*\* \*\*\* 1831U9 5-21-67 LUNAR ORB HI- 610MM B&\* - NONE 286BK 4701639 96 2-1 21 --76
  CAM-HAD-# 42-81N 38-27W SWING= 260+ PHASE# 75+ EMIS-ANG-# 5+ CAM-RAD-# 4607-2 kM+ SUN AZM#109-1
- 1 LAC 23 RUMKER, SHA & LAC II J. HERSCHEL JUHAS . BOUGUER E 4 2 150\* 12\*7JN 49\*29# 27 \*\*\* \*\*\* 060312 5=22=67 EUNAR ORB ED\*F#80MH B&# - NONE 2668k 33350000 234 [\*3 [8 -\*1]
  CAM\*NAD\*# 43\*91N 47\*59% SWING\*# 48\* PHASE# 70\* EM15\*ANG\*# 3\* CAM\*RAD\*# 4407\*2 KM\* SUN AZM# 93\*5 EAC 57 REPLEK, ENC 1 W>1/2 MOON SPHERE; LAC 92 BYRGIUS, DA ; LAC 11 J. HERSCHEL, JURAS, ROUGHER & LAC 58 COPERNICUS, RE
- E 4 1 151 Ч∪+88N Ч∪+20N 27 ++\* ++\* 063228 5-22-67 LUNAR ORB H1+ 610MM B6\* NONE 2866K 469R3A1 118 2+4 21 -+76 Сам+NaD+= 42+89N 44+74W Swing= 282+ РНАБЕ= 75+ EMIS+ANG+# 6+ САМ+RAD+# 4A05+2 КМ+ SUN AZM=108+3 EASTERN PART OF LAC 23 NUMER + SHARP : LAC 24 SINUS IRID & LAC II J.HERSCHEL.JURAS.BOUGUER
- L 4 1 152 69+78N 29+61M 27 \*\*\* \*\*\* 071044 5=22+67 LUNAR ORB H1+ 610MM B6W NONE 3345K 5483607 142 1+5 13 -+15 Cam+Hade= 72+22N 34+79W Swing= 321+ PHASE= 81+ EHIS+ANG+= 4+ CAM+RAD+= 5084+2 KM+ SUN AZM=126+4 LAC 3 PHILDLAUS, BAKRON I LAC 2 ANAXIMENES, PASCAL I LAC 11 J. HERSCHEL, JURAS, BOUGUERG LAC 1 N. POLE NEARS!

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SUN AZM=107.7

MIS MAG FR.PHUTU PRIN.PT. URB GET GHT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE SION RULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWI L DNG. (ImESTIMATED) TYPE M=NoHI PT. FR. L K=KH. VERT L 4 1 163 41+21N 53+38H 29 ++\* ++\* 063426 5-23-67 LUNAR URB HI. 619HH 86H - NONE 2867K 4788000 115 2.Z 28 -, CAM-NAD-# 42-87N 57-71W SKING# 279. PHASE# 76. EMIS-ANG-# 6. CAM-RAD-# 4606-2 KM. SUN AZH-107-7 CENTRAL PART OF LAC 23 RUMKER SHARP I LAC 10 BABBAGE N.PR I LAC 11 J.HERSCHEL J & NORTHERN PART OF LAC 38 SELEUCUS SCI L 4 I I64 70-19N 41-50# 29 \*\*\* \*\*\*\* 071247 5-23-67 LUNAR ORB HI. 610MM B6% - NONE 3346K 5485246 136 1.4 13 -. CAM-NAD-= 72-268 47-118 SWING= 313-PHASE # 81. ENIS.ANG. 4. CAM+RAD+# 5085+2 KH+ SUN A7M#126+8 : LAC 3 PHILOLAUS, BARROW | LAC 10 BABBAGE, N. PROCELARM. LAC 2 ANAXIMENES PASCAL & LAC IT J.HERSCHEL.J L 4 I 170 41°77N 59°60W 30 \*\*\* \*\*\* [83518 5-23-67 LUNAR ORB HI. 610MM 86W " NONE 2871K 4706557 108 2.2 20 -. LAM-NAD = 43-00N 64-22W SWING= 27to PHASE= 76. EMIS-ANG.= 6. CAM-RAD.= 4AID-2 KH-

L 4 1 175 41.29N 66.78# 31 \*\*\* \*\*\* D63541 5-24-67 LUNAR ORB H1. 618MM B6# \* NONE 2072K 4788197 116 2+8 19 ++ LAM-NAD-= 42-86N 70-79W SWING= 280. PHASE= 76. EMIS-ANG.= 5. CAM+RAD+= 4611+2 KH+ 5UN AZM=106.8 LAC 22 St.geRard.bunsen.harding : LAC 23 RUMKER.SHARP

I LAC 22 SE.GERARD.BUNSEN.HARDIN: LAC 1D BABBAGE.N.PROCELARM. & LAC 11 J.HERSCHEL.J

1 LAC 10 BABBAGE . N. PROCELARM. & LAC 11 J. HERSCHEL. J - NONE 3354K 5498361 142 1+5 13 -+

CAM-NAD-= 72-28N 59-77W SWING= 32D: PHASE= 81: EMIS-ANG.= 4. CAM-RAD.= 5093-2 KM-SUN AZM=125.7 LAC 2 ANAXIMENES PASCAL : LAC 3 PHILOLAUS.BARROW | LAC 10 BABBAGE.N.PROCELARM. & LAC 11 J.HERSCHEL.J L 4 1 163 43.53N 71.02N 32 ... ... 183607 5-24-67 LUNAR ORB HI. 610MM B6W - NONE 2874K 471:475 79 2.8 20 -.: CAH+RAD+# 4613+2 KH+ SUN AZMEIGB. 9 EASTERN PART UF LAC 22 SE GERARD BUNSEN HARDING 1 LAC 23 RUMKER, SHA & LAC 37 STRUVE DALTON

TOTAL PHOTUS IN THIS GROUP = 15

LAC 23 RUMKER, SHARP

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- HIS MAG FR.PHOTO PRIN.PT. ORK GE T GMT M-Da-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT IILT SUN SIDE. SION RULL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. MAIN ( \*ESTIMATED) LONG TYPE FR. HENOHI PT. LAP K=KM. VERT 8. 8
- L 4 2 97 12-774 9.65E 18 \*\*\* \*\*\* 174328 5-17-67 LUNAR ORB LO.F=8DMH B6W NONE 2705K 3381250D 245 1-4 22 -.50 CAM-NAD-= 13-70N 11-76E SWING= 60. PHASE= 65. EHIS-ANG.= 4. CAM-RAD-= 4444.2 KM. 5UN AZM= 94.7 LAC 59 M-VAPUNUM-HYGINUS : \$\infty\)1/2 MOON SPHERE : LAC 12 PLATO,ALP1 1 LAC 80 LANGRENUS,M.FERT. & LAC 314 RHEITA.JA
- L 4 I 104 70-35N 18-10E 19 \*\*\* \*\*\* 0657C8 5-18-67 LUNAR ORB H1. 610MM 86N NONE 3428K 5619672 153 .9 12 -. 1

  CAM-HAD. 71-87N 15-88E ' SWINGE 33D. PHASEE 8D. EMIS-ANG. 3. CAM-RAD. 5167-2 KM. SUN AZH-125-4

  LAC 4 METON-DESIT : LAC 3 PHILOLAUS, 8 : LAC 13 ARISTUTE., : LAC 12 PLATO, ALPINE VAL. 5 LAC 1 N-POLE NEARSID
- L 4 2 109 13+79N 3+58# 20 \*\*\* \*\*\* 174732 5=18=67 LUNAR ORB LO+F=80MM 869 \*\*\* NONE 2693K 33662500 267 1+3 21 =+67 CAM+#AD+\*\* 13+89N 1+48# SWING= 82\*\* PHASE= 66\*\* EMIS\*ANG\*= 3\*\*\* CAM\*RAD\*\*\* 4432-2 KM\*\*\* SUN AZM\*\* 94+7 LAC 59 M+VAPORUM\*\*HYGINUS I #21/2 MOON SPHERE 1 LAC 12 PLATO\*\*ALPINE VAL\*\*\* & LAC 61 TARUNTIUS\*\*LY
- L 4 | 110 42-59N 3-35E 20 \*\*\* \*\*\* 182013 5-18-67 LUNAR ORB H1, 610MM B6W NONE 2916K 4780328 94 1-1 21 +.72

  CAM-NAD- 42-77N U-86E SWINGE 259. PHASE 72. EMIS.ANG. 3. CAM-RAD. 4655.2 KM. SUN AZM-109-6

  EASTERN PART OF LAC 25 CASSINI.ALP : LAC 26 EUDOXUS.BUR : LAC 12 PLATO.ALP1 : LAC 13 ARISTOTE. H-FRIG 6 LAC 41 APENNINES
- L 4 2 114 13.47N 10.97H 21 000 0000 05493B 5-19-67 LUNAR ORB LO.F=80MH 86N -- NONE 2687K 33587500 261 108 19 --64

  CAM-HAD.= 13.89N 8.09H 5xing= 77. PHASE= 660 ENIS.ANG.= 50 CAM-RAD.= 4426.2 KH0 SUN AZH= 94.2

  LAC 58 CUPERNICUS.REINHOLD 1 W>1/2 HOON SPHERE 1 LAC 111 WILHELM.E 1 LAC 12 PLATO.ALP 1 LAC 26 EUDOX & LAC 96 ALTAI
- L 4 I 115 42-27N 2-67N 21 0-0 0-00 D62212 5-19-67 LUNAR DRB HI, 610MM B6W NONE 2905K 4762295 LOS 1-4 25 --78

  CAM-NAD-= 42-76N 5-70M SWING= 267. PHASE= 73. EMIS-ANG.= 4. CAM-RAD.= 4644.2 KM. SUN A2M=109-5

  LAC 25 CASSINI,AL 1 LAC 12 PLATO-ALFI 1 LAC 13 ARISTOTE., 1 LAC 40 TIMOCHARIS,LAMBERT 6 LAC 41 APENNINES,HAE
- L 4 1 122 42.07N 9.24W 22 \*\*\* \*\*\* 1824! S"19"67 LUNAR ORB H1. 610HM R6W "NONE 2895K 47459D2 105 1.4 21 ".77

  CAM.NAD.W 42.76N 12.27W SWINGE 27D. PHASEW 73. EMIS.ANG.W 4. CAM.RAD.W 46.34.2 KM. SUN AZHW109.1

  PESTERN PART OF LAC 25 CASSINI.ALP 1 LAC 24 SINUS IRIDU 1 LAC 12 PLATO.ALP1 : LAC 40 TINDCHARTS.LAMBERT & LAC 41 APENNINE™
- L 4 1 127 41-24N 14-29W 23 000 0000 5-20-67 LUNAR ORB H<sup>1</sup>, 610MM B6W -- NONE ZBB6K 473114B 114 2-2 22 --,77 CAM-NAD-- 42-86N 18-79W SWING- 2780 PHASE- 740 EMISOANG-- 60 CAM-RAD-- 4625-2 KM SUN AZM--189-6 EASIGN PART OF LAC 25 CASSINI-AL 1 LAC 12 PLATO, AIPINE VALO 6 LAC 40 TIMOCHARIS, LA

- ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE GET GHT M-DA-YR CAMERA-LENS OR MIS MAG FR.PHOTO PRIN.PT. ORB AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. TIMES-HR M SEC SENSOR OR LAT. . SION ROLL MeNeMI PT. FR. LAP TYPE (IMESTIMATED) MAIN LONG. VERT 8.8 K=KH.
- L 4 I 128 69-92N 9-43W 23 \*\*\* \*\*\* 070417 5=20=67 LUNAR ORB H1: 61DMM B6\* NGNE 3369K 552295I 171 I:0 I2 -- 9

  Cam.Nad.= 71:69N 10:32W SWING= 347- PHASE= 80: EMIS.ANG.= 3: CAM.RAD.= 5:08-2 KH: SUN A7H=122:3

  LAC 3 PHILULAUS:B I LAC 4 METON.DESIT I LAC IZ PLATO.ALPI I LAC II J.HERSCHEL.JURAS.BOUGUER 6 LAC Z ANAXIMENES.PAS
- L 4 | 134 40.31N 18.14W 24 ... 182759 5-20-67 LUNAR ORB H . 610MM R&W ... NONE 2878K 4718033 53 3.7 21 -.26

  CAN.NAD == 42.80N Z5.30W SWING= 218. PHASE= 74. EMIS.ANG.= 10. CAM.RAD.= 4617.2 KM. SUN AZM=113.2

  EASTERN PART OF LAC 24 SINUS IRIDU: LAC 25 CASSINI.ALP: LAC 12 PLATO.ALP!: LAC 40 TIMOCHARIS.LAMBERT & LAC 3 PHILOLAUS.
- L 4 1 140 71:05N 16:31W 25 \*\*\* \*\*\* 070BUL 5-21-67 LUNAR ORB HI: 610MM B&W NONE 3359K 5500000 117 1:2 13 \*\*\*22

  CAM:NAD:\*\* 72:21N 22:53W SWING\*\* 297. PHASE\*\* BI: EMIS:ANG:\*\* 3. CAM:RAD:\*\* 5094:2 KM- SUN AZM=127:7

  LAC 3 PHILULAUS:BARRUW I LAC 11 J:HERSCHEL:JURAS:BOUGUE; LAC 12 PLATO:ALPINE VAL: & LAC 4 METON:DESTITE
- L 4 2 163 41\*22N 53\*38W 29 \*\*\* \*\*\* 063426 5=23-67 LUNAR ORB LO.F.BOMM B6W NONE 2867K 35837509 115 2\*2 20 -\*\*\*

  CAM-NAD.# 42\*87N 57\*71W SWING# 279\* PHASE# 76\* EMIS\*ANG.# 6\* CAM-RAD.# 4606\*2 KM\* SUN AZM#107\*7

  LAC 23 RUMKER.SHARP : \$\infty\) 1 \$\infty\) 1 HOON SPHERE : LAC 73 RICCIOLI.NE\*ORIENTAL 6 LAC 1 N\*POLE NEARS1
- L 4 2 175 41-29N 66-78W 31 \*\*\* \*\*\* D63541 5-24-67 LUNAR ORB LO-F=80MM 86W NONE 2872K 35900000 116 2+0 19 \*\*\*\* ORM-NAD-\*\* 42-86N 70-79% SWING\*\* 279\* PHASE\*\* 76\*\* EMIS-ANG\*\* 5\*\* CAM-RAD-\*\* 4611-2 KM\*\* SUN AZM=106-8 LAC 22 SL-GERARU-BUNSEN-HARDING | D>1/2 MUON SPHERE | LAC 73 RICCIOLI,NE-ORIENTAL & LAC I N-POLE NEARS1
- C 4 2 189 41+72N 79+99W 33 \*\*\* \*\*\* D63636 5=25=67 LUNAR ORB LO+F=80MM R6# NONE 2878K 35975000 110 1+9 18 ++\*\* CAM-NAD-= 42+88N 84+00# SWING= 273+ PHASE\* 77+ EMIS+ANG+# 5+ CAM+RAD+# 4617+2 KM+ SUN AZM=106+1 LAC 22 SE+GERARD+8UNSEN+HARDING : \$\Delta >1/2 MOON SPHERE : LAC 108 M+ORIEN(5W 1/3 G) & LAC 1 N+POLE NEARSI

L

FR.

VERT

SUN AZH=107.7

PAGE 25 MIS MAG FROPHUTO PRINOPTO URB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE # TIMES-HR M SEC AND FILTER TUDE PRIN. AZ ANG. ANG. FR

SION RULL OR LAT. SENSOR MAIN LONG. ( =ESTIMATED) TYPE

L 5 1 129 48+68H 2+89# 56 ++\* ++\* 075437 8-15-67 LUNAR URB HI+ 610HH B6# CAM-NAD-= 48-30N 4-19W Skings 328. PHASEs 79. EMIS.ANG. 8.

SUUTHERN PART OF LAC 12 PLATO ALPINE VAL. L S 2 129 48.69N 2.92H 56 \*\*\* \*\*\* 075437 8\*15\*67 LUNAR ORB LO.F=8UNH 86M

CAN.NAD. 48.38N 4.19N SWING 32B. PHASE 79. EHIS.ANG. 8. SOUTHERN PART OF LAC 12 PLATO ALPINE VAL. L 5 1 130 49.31N 2.74% 56 ... ... 075440 8-15-67 LUNAR ORB HI. 610MM BGW

CAM-NAD.= 48.86N 4.09W 5#1NG= 325. SOUTHERN PART OF LAC 12 PLATO, ALPINE VAL.

L 5 2 130 49+33N 2+76# 56 ++\* ++\* 075449 8-15-67 LUNAR ORB LO-F#80HM B&A CAM-NAD. 48.86N 4.09% SWING 324. PHASE 79. EHIS.ANG. 8. SOUTHERN PART OF LAC 12 PLATO ALPINE VAL.

L 5 1 131 49+96N 2+58# 56 \*\*\* \*\*\* 0755@O 8#15#67 LUNAR URB HI . 610HM B6# CAH-NAD.# 49.42N 3.99W SWING# 3210 PHASE# 79. EMIS-ANG.# 9. SOUTHERN PART OF LAC 12 PLATO, ALPINE VAL.

L 5 2 131 49.98N 2.60W 56 ... ... 075500 8-15-67 LUNAR ORB LO.F.ROMM B&W CAM-NAD-= 49-43N 3-98W SWING= 320- PHASE= 79- EMIS-ANG-= 9-SOUTHERN PART OF LAC 12 PLATO ALPINE VAL.

L 5 1 132 SQ+62N 2-41W S6 +++ ++++ 075512 8-15-67 LUNAR ORB H1. 610MM 86W CAM+HAD+= 50+06N 3+88# SWING 318. PHASE 79. EMIS.ANG. 9. CAM.RAD. 1982.2 KM. S. E. PART OF LAC 12 PLATO-ALPINE VAL. L 5 2 132 54.64N 2.43W 56 ... 0.00 075512 8-15-67 LUNAR ORB LO.F.BOHM BEN CAH-RAD. SU-CCN 3-BTH SWING= 317. PHASE 79. EHIS:ANG. 9.

SOUTHERN PART OF LAC 12 PLATO ALPINE VAL.

TOTAL PHOTOS IN THIS GROUP = 29

\* NONE 233K 2912500 65 6.9 17 CAM+RAD+# 1972+2 KM+ SUN AZH#107+7 6 NORTHERN PART OF LAC 25 CASSINI . ALPS HTS - NONE 236K 386885 62 7+3 17 PHASE# 79. EHIS-ANG.# 8. CAM-RAD.# 1975.2 KM. SUN AZME108+0

CAM+RAD+m 1972+2 KM+

NONE 236K 2950000 61 7.2 17 -,8 CAM+RAD+# 1975+2 KM+ & NORTHERN PART OF LAC 25 CASSINI ALPS HTS SUN AZM=108.0 - NONE 239K 391803 58 7+6 17 +...

HONOME PT.

- NONE 233K 381967 A5 7.8 17 -.4

K=KM.

CAM+RAD+# 1978+2 KM+ SUN AZH+108+4 \* NONE 239K 2987500 57 7.5 17 -.8 CAM+RAD+# 1978+2 KH+ SUN AZH=108+3 & NORTHERN PART OF LAC 25 CASSINI, ALPS HTS

NONE 243K 398361 55 8.0 17 SUN #7M=108.7 \*\* NONE 243K 3037500 54 7.9 17 -.87 CAM. RAD. = 1982.2 KM. SUN AZH=108.7 6 NORTHERN PART OF LAC 25 CASSINI.ALPS HTS

OF THE

MIS MAG FREPHUTU PRINSPT. URB GET GHT H-DA+YR CAMERA-LENS OR FILH-EXP'SURE ALTI SCALE AT TILT SUN SIDE . OR LAT. TIHES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LONG. (I=ESTIMATED) TYPE M=N.MI PT. FR. K#KH. VER1

- L 4 1 79 41.83N 39.05E 15 \*\*\* \*\*\* 061131 5-16-67 LUNAR ORB HI. 610HM 86W NONE 2964K 4859016 103 2.1 25 +.90
  CAM.NAD.= 42.79N 34.33E SWING= 268. PHASE\* 71. EMIS.ANG.\* 6. CAM.RAD.\* 4703.2 KM. SUN AZM\*113.3
  LAC 27 GEMINUS.AT 1 LAC 26 EUDOXUS.AU : LAC 13 ARISTOTE... : LAC 14 ENDYMJON.STRABO & LAC 42 M.SERENITY.DA
- L 4 2 79° 41°83N 39°05E 15 °°° °°°° 06131 5=16-67 LUNAR ORB LO.F¤80MM 86W NONE 2964K 37050000 103 2°1 25 -.90

  CAM-NAD.= 42°79N 34°33E SWING= 268° PHASE= 71° EMIS°ANG= 6° CAM-RAD.= 4703°2 KM° SUN A7H#113°3

  LAC 27 GEMINUS,ATLAS : \$\text{\$

- L 4 1 98 40.97N 18.53E 18 \*\*\* \*\*\* 181625 5-17-67 LUNAR ORB HI. 610HH BGW NONE 2938K 4816393 118 2.2 23 -.76

  CAM.NAD.= 42.81N 14.21E SHING= 282. PHASE= 72. EHIS.ANG.= 6. CAM.RAD.= 4677.2 KH. SUN AZHEILI.3

  LAC 26 EUDDXUS.BU 1 CENTRAL PART OF LAC 13 ARISTOTE.. 1 WESTERN PART OF LAC 42 M.SEREHITY.DAYES G LAC 41 APENHINES.HAE

The top serve to be a few or

MIS MAG FR.PHOTU PRIN.PT. URB GET GHE M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTE SCALE AT TILT SUN SYDE, SION ROLL OR LAT. SENSOR PRIN. AT ANG. ANG. FED. TIMES-HR M SEC AND FILTER TUDE LAF HAIN LUNG. ( = LSTIMATED) TYPE MEN.H! PT. FR. VERT \* mKH. B . 1

- L 4 1 103 41-81N 11-28E 19 \*\*\* \*\*\* 061815 5\*18+67 LUNAR ORB HI. 610HM B&K NONE 2927K 4798361 107 1-7 22 --77

  CAM:NAD: 42-76N 7-57E SWING: 272: PHASE= 72. EMIS:ANG: 5: CAM:RAD: 4666-2 KM: SUN AZM:110-7

  WESTERN PART OF LAC 26 EUDOXUS:BUR I LAC 25 CASSINI.ALP I LAC 13 ARISTOTE:: 1 LAC 41 APENNINES:HAEMUS & LAC 42 H:5grenit

- L 4 I 116 70-80N 4-49E 21 \*\*\* \*\*\* 070041 5+19-67 LUNAR ORB HI & SIMM R&W NONE 3397K 5568852 148 \*\* 6 12 -\* 0

  CAM-NAD-= 71-88N 2-48E SHINGE 326. PHASER BD. EHIS-ANG-E Z. CAM-RAD-E 5\*36-2 KM- SUN AZME124-1

  LAC 3 PHILULAUS-B : LAC 4 METUN.DESIT 1 LAC 12 PLATO-ALP! : LAC 13 ARISTOTE...M-FRIG & LAC 1 N-POLE NEARSID
- L 4 2 133 18-74N 29-69W 24 \*\*\* \*\*\* \*\*\* 175540 5\*20\*67 LUNAR ORB LO-F#BOMM B&W NONE 2673K 33412500 340 3-3 19 --21

  CAM-NAD-# 13-91N 27-86W SWINGN 156- PHASE# 68- EMIS-ANG-# 8- CAM-RAD-# 4412-2 KM- SUN AZH# 95-9

  LAC 40 11MOCHARIS-LAMBERT I W>1/Z MOON SPHERE ; LAC 93 M-HUMOR-, GASSENDI & LAC 2 ANAXIMENES, PA
- E 4 2 158 42-00N 47-66W 28 \*\*\* \*\*\* 183333 5-22-67 LUNAR ORB LO∍F=80HM B&W → NONE 2866K 3582500D 106 1-7 20 -+\*

  CAM-NAD+= 42-85N 51-22W 5WING= 271+ PHASE= 75+ EHIS+ANG+= 4+ CAM-RAD+= 4405+2 KM+ 5UN AZH=107+7

  LAC 23 RUMKEH,SHARP 1 ₩>1/2 MOON SPHERE 1 LAC 73 RICCIOLI,NE+ORIENTAL & LAC 1 N+POLE NEARSI
- 2 4 2 170 41•78N 59•60N 30 €•€ ●•€• 183518 5=23=67 LUNAR ORB LO.F=80HM 86W ~ NONE 2871K 35887500 108 2•2 20 −•1 Cah•nao•= 43•00N 64•22W 5wing= 271. Phase= 76. Emis•ang.= 6. Cam•rad•= 4610•2 km. Sun azm=107•7 Lac 23 xumklr.Sharp : p>1/2 huon 5phsre : lac 73 riccidli.Ne\_oriental & lac 6
- L 5 2 6 59-850 LL1-65K 2 \*\*\* \*\*\* 112205 8\*86\*67 LUNAR ORB LO-F#88HH B&W \*\* NONE 2648K 33100000 286 9-7 B \*\*-96
  CAM-NAD-# 58-94N BJ-15N SAING# 91- PHASE# 107- EHIS-ANG-# 25- CAM-RAD-# 4387-2 KM- SUN AZH#259-6
  LAC 26 COULUMB : \$\imprimes1/2 HOON SPHERE : LUNAR N+ HEHISPHE : LAC 1 N-POLE NEARSIDE BYRD-PFARY >80 N 7- LAC 5 PETERHANN, HAY

" NONE 2456K 33200000 285 9.6 8 -. 9

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MIS MAG FROPHUTU PRINOPTO ORB GET GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE SION ROLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FW MAIN LONG. ( !=ESTIMATED) TYPE MeN.M; PT. FR. K B K M o VERT - NONE 2652% 33150000 286 9.6 8 -. LAC 20 COULOMB | 4>1/2 MOON SPHERE | LUNAR N. HEMISPHE | LAC | N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 5 PETERMANN. HAY 9 59-65% 111-42% 2 +>\* ca\*\* 112214 8-06-67 LUNAR ORB LO.F. BOMM BEW - NONE 2654K 33175000 286 9.6 8 -. CAM-NAD-= 58-85N 81-118 SWING= 90. PHASEM 107. EHIS-ANG-= 25. CAM+RAD+# 4393+2 KM+ 5UN AZM#259+8 LAC 20 COULOND | WOLZ HOON SPHERE : LUNAR N. HEMISPHE : LAC I N.POLE NEARSIDE BYRD.PFARY >80 N 6 LAC 5 PETERMANN, HAY L 5 2 10 59.59N 111.34H 2 000 0000 112216 8-06-67 LUNAR ORB LO.F.BOMH B&W

CAM-NAD-# 58-82N 81-10W SWING# 9D. PHASE# 107. EMIS-ANG.# 25. CAM-RAD-# 439E-2 KM. SUN AZH=259.9 LAC 20 COULONS 1 WOLZ HOON SPHERE ! LUNAR N. HEMISPHE : LAC I N. POLE NEARSIDE BYRO. PFARY >00 N 6 LAC 5 PETERMANN, HAY L 5 2 11 59-52N 111-27W 2 \*\*\* \*\*\*\* 112219 8-06-67 LUNAR ORB LO.F=80MM B&W " NONE 2457K 33212500 285 9.6 8 -. 9 CAM.NAD.= 58.79N 81.09# SHING= 90. PHASE= 187. EMIS.ANG.= 25. LAC 26 COULOMB 1 W>1/2 HOON SPHERE 1 LUNAR No HEMISPHE ; LAC 1 NoPOLE NEARSIDE BYRD PEARY >80 N & LAC 5 PETERHANN, HAY CAM+RAD+m 4396+2 KM+

L 5 2 12 59.46N 111.19W 2 ... ... 112222 8+06-67 LUNAR ORB LO.F. BOMM BEW CAM-NAD-= 58-75N 81-08W SWING= 90+ PHASE= 107. EMIS-ANG.= 25. CAM-HAD-= 4398-2 KM. SUN AZM=260-1 T MONE 2659K 33237500 285 9.6 8 -.9 LAC 28 CUULOMB I WOLZ MOON SPHERE : LUNAR N. HEMISPHE : LAC I N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 5 PETERMANN, MAY

TOTAL PHOTOS IN THIS GROUP = 26

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CAM-NAD. # 42.79N 34.33E

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THESE TWO SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: . . DEGRADED PHOTOS. . . . . . ALMOST UNUSABLE PHOTOS.
              TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZY & VERTICAL TO CAHERA AXIS
              (-).(+).( ). OR(O) = NO INFO
                                           # # APPROXIMATELY NEXT TO MAGH. B=BRACKET MOUNTED: G= CAM. ON GROUND
              CAMENA-LENS AS FOLLOWS:
                                                     SW.A. = SUPER WIDE ANGLE LENS! EKTREEKTAR 2.8 LENS!
               HSB# HASSELBLAD! MAURE MAURER: ZP.ZB.ZS = ZEISS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTH(MH) & HAX.F-OPENING
              10. AS EXPOS SPEED . 1/1000 FOR .. THO ZEROS:
             FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS
             COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT O
MIS MAG FR.PHUTU PRIN.PT. ORB
                                GET GHT M-DA-YR
                                                      CAMERA-LENS OR
                                                                       FILM-EXPOSURE
                                                                                        ALTI SCALE AT TILT SUN SIDE
SION ROLL OR LAT.
                               TIMES-HR M SEC
                                                          SENSOR
                                                                             AND FILTER TUDE PRING AZ ANG. ANG. FWE
          HAIN
                     LONG.
                               (IEESTIHATED)
                                                          TYPE
                                                                                         MEN-MI PT.
                                                                                                          FR.
                                                                                                                   L
                                                                                         K=KH.
                                                                                                          VERT
        55 42+07N 65+57E 11 ++* ++** 060707 5-14-67 LUNAR ORB HI: 610MM B6W
                                                                             " NONE 2982K 4888525 182 1+9 26 ++
    CAM-NAD-= 42-84N 61-25E
                               SWING= 266. PHASE= 69. EMIS.ANG.= 5.
                                                                             CAM-RAD -- 4721+2 KH+
LAC 28 GAUSS, MESS : NONTHERN PART OF LAC 44 CLEONEDES, ; N. E. PART OF LAC 14 ENDYHION, STRABO & LAC 15 M. HUMBOLTIANS
        56 74+35N 68-44E 11 *** *** 064639 5*14-67 LUNAR ORB HI. 610MM B&W
                                                                              * NONE 3495K 5729508 214
                                                                                                            ·8 13 -.9
    CAM-NAD .= 71.63N 71.06E
                               SWINGS 25. PHASES 78. EMIS.ANG. 2.
                                                                             CAM+RAD+= 5234+2 KH+
 LAC 5 PETERHANN. I LAC 4 METON. DESIT : LAC 14 ENDYMION. S : LAC 15 M. HUMBOLTIANUM
                                                                                                     SUN AZHE126.8
                                                                                                & LAC I N. POLE NEARSTO
        62 42-37N 59-16E 12 ++* ++* 180759 5-14-67 LUNAR URB HI+ 610HH B6W
                                                                             * NONE 2979k 4883607 95 2.0 25 -..
    CAM-NAD = 42-81N 54-52E
                             SWING= 260. PHASE= 70. EHIS.ANG.= 5.
                                                                            CAM-RAD .= 4718.2 KM. SUN AZM#115.0
 LAC 28 GAUSS, MESS : LAC 27 GEMINUS, AT : LAC 14 ENDYMION, S : LAC 15 M. HUMBOLTIANUM
                                                                                               6 LAC 44 CLEOMEDES.M.C
L 4 I 67 41.80N 51.64E 13 *** *** 060901 5=15=67 (UNAR ORB HI. A1DMH RGW
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L 4 1 68 70.93N 53.66E 13 *** *** 064827 5*15-67 LUNAR U'R HI. 610MM 86W
                                                                          - NONE 3468K 5718033 239 .7 12 -.9
    CAM-NAD-= 71-63N 57-12E SWING= 50. PHASE= 78. EMIS-ANG. 2.
 LAC 4 METON DESIT : LAC 5 PETERMANN. I LAC 14 ENDYMION S: LAC I N. POLE NEARSIDE BYRD . PEARY > BO N & LAC 146 N. POLE FARSI
L 4 1 74 40+70N 45+57E 14 *** **** 181008 5*15-67 LUNAR ORB HE: 610MM B&W
    CAM-NAD-# 42-75N 41-06E SHING# 283. PHASE# 71. EMIS-ANG.# 6.
                                                                                HONE 2970K 4868852 119 2-3 25 -.6
                                                                          CAM-RAD-= 4709-2 KM- SUN A7M=113-2
 CENTRAL PART OF LAC 27 GENINUS, ATLAS
                                            I NURTHERN PART OF LAC 43 HACROBIUS, 6 CENTRAL PART OF LAC 14 ENDYMION, STR
1 4 1 79 41.83N 39.05E 15 *** *** 061131 5-16-67 LUNAR ORB H1. 610MM B&W
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EASIENN PART UF LAC 27 GEHINUS, ATL : LAC 28 GAUSS, HESSA : LAC 14 EMDYMION, S ; LAC 43 HACRORIUS, PROCLUS

LAC 26 EUDOXUS.HU : LAC 27 GENINUS.AT : LAC 13 ARISTOTE. : LAC 14 ENDYHION.STRABO

CAM-NAD-# 42-81N 47-79E SWING= 272- PHASE= 70. EMIS-ANG-# 5. CAM-RAD-# 4715-2 KM- SUN AZM#113-6

LAC 27 GEMINUS.AT : LAC 26 EUDOXUS.BU : LAC 13 ARISTOTE. : LAC 14 ENDYMION.STRABO & LAC 42 H. SERENITY DA 80 70.45N 46.09E 15 \*\*\* \*\*\* 065107 5-16-67 LUNAR ORB HI. 610MM R6W " NONE 3479K \$703279 147 CAM-NAD-= 71-89N 43-34E SWING= 323- PHASE= 79- EMIS-ANG-= 3-CAM+RAD+= 5218+2 KM+ SUN AZH=128+9 LAC 4 METON DESIT : LAC 5 PETERHANN. : LAC 13 ARISTOTE. : LAC 14 ENDYMION.STRABO & LAC I N.POLE NEARSID 86 41.02N 31.25E 16 \*\*\* \*\*\* 181300 5-16-67 LUNAR ORB HI. 610MM 86W - NONE 2956K 4845902 122 1.9 24 SWING= 286. PHASE= 71. EHIS.ANG. S. CAM.RAD. 4695.2 KM. SUN AZHEILI.7 LAM-NAD-# 42-86N 27-61E

SWING= 268. PHASE= 71. EMIS.ANG.= 6. CAM.RAD.= 4703.2 KM.

OR GIVAL PAGE IS POOR HE RODOGERILLY OF THE

" NONE 2976K 4878689 108 1.8 25 -.9

T NONE 2964K 4859016 103 2-1 25 -.9

& LAC 44 CLEOMFDES

SUN AZM#113+3

& LAC 42 M.SERENITY DA

LAC 28 GAUSS. MESS : BI/4 MOONS SPHERE : LAC 14 ENDYMION.S : LAC 15 M. HUMBOLTIANUM

& LAC AS NEPER. SCHURER

MIS MAG FR. PHOTO PRIN. PT. ORB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MIAH HAIR LUNG. ( =ESTIMATED) TYPE M=N-M1 PT. FR. LAP K#KM. VFRT 8. 8 L 4 Z 89 15-095 16-90E 17 \*\*\* \*\*\*\* GS1044 5-17-67 | UNAR ORB LO.F. BOMM 86W " NONE 2724K 34050000 154 +5 22 -.\*\* CAM.NAD. = 14.455 16.59E SWING 390. PHASE 68. EHIS.ANG. .. CAM-RAD. - 4463-2 KM. SUN A7H- 83-2 LAC 78 THEOPHILUS : 4>1/2 HOON SPHERE : LAC 14 ENDYHION, S : LAC 42 H. SERENITY DAWES & LAC 113 HAUROLTEUS R 91 42-03N 25-73E 17 \*\*\* \*\*\* 061439 5-17-67 LUNAR ORB HI. 610MH 86W - NONE 2947K 4831148 100 2.1 24 -.36 CAM-NAD-# 42-86N 20-90E SWING= 265. PHASE= 72. EHIS-ANG.= 6. CAM-RAD-# 4686-2 KM. SUN AZM=112-5 EASTERN PART OF LAC 26 EUDOXUS.BUR ! LAC 27 GEMINUS.ATL ! LAC 13 ARISTOTE.. : LAC 14 ENDYHION.STRABO & LAC 42 M.SERENIT 92 71-16N 32-23E 17 ... ... 065357 5-17-67 LUNAR ORB HI. 610HH BGW - NONE 3457K 5667213 129 -6 12 -. 3 CAM-NAD-= 71-92N 29-48E SWING= 306- PHASE= 79. EHIS-ANG.= 2. CAM-RAD-= 5196-2 KM- SUN AZM=127-4 LAC 4 METON DESIT : LAC 5 PETERHANN. : LAC 3 PHILOLAUS.B : LAC 13 ARISTOTE. H. FRIG & LAC 1 N.POLE NEARSID L 4 2 122 42-08N 9-24W 22 \*\*\* \*\*\* 182411 5-19-67 LUNAR ORB LO-F\*80HM B6W - NONE 2895K 36187500 105 1-4 21 --22 CAM-NAD-# 42-76N 12-27W SWING# 270. PHASE# 73. EMIS-ANG.# 4. CAM-RAD-# 4634-2 KM. SUN AZM#109-1 LAC 25 CASSINI.AL : W>1/2 HOON SPHERE : LAC 76 RIPHAEUS M : LAC I N. POLE NEARSIDE BYRD. PEARY >80 N & LAC 14 ENDYMION, STRA L 4 2 134 46.31N 18.14W 24 ... ... 182759 5-20-67 LUNAR ORB LO.F.BOMM B&W \* NONE 2879K 35987500 53 3+7 21 ++39 CAM-NAD = 42.8UN 25.33W SWING= 218. PHASE= 74. EMIS.ANG.= 10. CAM-RAD. 4618.2 KM. SUN AZM-113.2 LAC 24 SINUS INID : WOLZ HOON SPHERE : LAC 75 LETRONNE, F : LAC 1 N. POLE NEARSIDE BYRD, PFARY >80 N & LAC 14 ENDYMION, STRA L 4 2 139 42+17N 28+25W 25 ++\* ++\* 062940 5-21+67 LUNAR ORB LO.F=80HH B6W NONE 2872K 35900000 102 1.6 20 -. 24 CAM-NAD-# 42-82N 31-79d SWING# 267. PHASE# 74. EMIS-ANG.# 4. CAM-RAD-# 4611-2 KM. SUN AZM=108-6 LAC 24 SINUS INID 1 W>1/2 HOON SPHERE : LAC 74 GRIMALDIOS : LAC I NOPOLE NEARSIDE BYRDOPEARY >80 N & LAC 14 ENDYHION, STRA L 4 2 145 42+34N 33+70W 26 \*\*\* \*\*\*\* 183109 5-21-67 LUNAR ORB LO.F=80MM B&W " NONE 2868K 35850000 96 2.1 21 -... CAM-NAD-# 42-82N 38-27% SWING# 260. PHASE# 75. EHIS-ANG.# 5. CAM-RAD-# 4607-2 KH. SUN A7H#109-1 LAC 24 SINUS INID : W>1/2 MOON SPHERE : LAC 74 GRIHALDI.8 : LAC 5 PETERHANN, HAYN & LAC 14 ENDYHION STRA

L 4 1 165 38+84N 81+13E 29 \*\*\* \*\*\* 094351 5\*23-67 LUNAR ORB H1. 610MM 86% - NONE 5487K 8995082 290 7+6 14 -.\*\*
CAM-HAD-= 33-96N 112-70E SHING= 282+ PHASE= 109+ EMIS-ANG-= 33+ CAM-RAD-= 7226-2 KM+ SUN AZM-259-4

TOTAL PHOTOS IN THIS GROUP # 17

Maria Caranter and Comment

- HIS MAG FR. PHOTO PRIN. PT. ORB GET GMT M-DA-YR CAMERA-LENS ON FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SFN50R AND FILTER TUDE PRING AZ ANG. ANG. FND. MAIN LUNG. (FEESTIMATED) TYPE FR. M=N.HI PT. K=KH. VERT 8. 8
- L 4 I 36 41.65N 85.89E 8 \*\*\* \*\*\* 180452 5-12-67 LUNAR OR8 H1. 610NH 86W -- NONE 2982K 4888525 107 2.1 27 -.90
  CAM-HAD.= 42.83N 81.30E SWING= 271. PHASE= 68. EMIS.ANG.= 6. CAM.RAD.= 472].2 KM. SUN AZME[16.6
  LAC 29 BRUNU FABR I NORTHERN PART OF LAC 45 PLUTARCH.H I EASTERN PART OF LAC 15 M.HUMBOLTIANUM & LAC 16
- L 4 1 42\$ 70\*09N 84\*08E 9 \*\*\* \*\*\* 0645U6 5\*13\*67 LUNAR ORB HI. 61DMM B6W NONE 3494K 5727869 188 \*B 14 -.90 CAM-NAD-# 71\*66N 84\*75E SWING# 357\* PHASE# 78, EMIS\*ANG\*# 2\* CAM\*RAD\*# 5233\*2 KM\* SUN A7M#13N\*1 DEGHADED NEGA!IVE 1 LAC 5 PETERMANN, 1 LAC 6 1 LAC 15 M\*HUMBOLTIANUM 6 LAC 1 N\*POLE NEARSID
- L 4 1 55 42\*U7N 65\*57E 11 \*\*\* \*\*\* 0607Q7 5=14\*67 LUNAR ORB HI\* 610MM B6B NONE 2982K 4888525 102 1\*9 26 --.90 Cam\*nad\*\* 42\*B4N 61\*25E SWING\*\* 266\* Phase\*\* 69\* Emis\*ang\*\*\* 5\* Cam\*rad\*\*\* 4721\*2 km\* 5un azm\*tis\*! Lac 28 Gauss\*Mess 1 Northern Pari of Lac 44 Cleumedes\* 1 N° E\* Part of Lac 14 Endymion\*strago & Lac 15 M\*Humboltianu
- L 4 L 56 70+35N 68+44E 11 0+0 0+0+0 064639 5-14-67 LUNAR ORB HI 61DHM R6% NONE 3495K 5729508 214 +8 13 --90
   CAM-NAD-= 71+63N 71+06E SWING= 25+ PHASE= 78+ EMIS-ANG-= 2+ CAM-RAD-= 5234-2 KM+ SUN AZM=126+8
   LAC 5 PETEKMANN, 1 LAC 4 METUN, DESIT 1 LAC 14 ENDYMION-S 1 LAC 15 M-HUMBOLTIANUM 6 LAC 1 N-POLE NEARSID
- L 4 1 6 44.37N 59.16E 12 000 0000 180759 5-14-67 LUNAR ORB HI. 410HM 86W NONE 2979K 4853607 95 208 25 -.00

  CAHONADO 42.81N 54.52E SWINGE 2600 PHASES 700 EMISONGOS 50 CANORADOS 4718.02 KM SUN AZME115.0

  LAC 28 GAUSSOMESS 1 LAC 27 GEMINUSORT 1 LAC 14 ENDYMIONOS 1 LAC 15 MONOMBOLITANUM 6 LAC 44 CLEOMEDESOMOC

GMT H-DA-YR

ALTI SCALE AT TILT SUN SIDE,

				- · · ·	• • • • • • • • • • • • • • • • • • • •			ALIA DENE	~ m: :		
H H H H H H H H H H H H H H H H H H H		LAT.	LONG.	TIMES-HR M SEC (T-ESTIMATED)		SENSOR TYPE	AND FILTER		RIN. AZ PT.	ANG, ANG, FR.	FWD
	H							K=KH+		VERT	8 •
CA	H-NAD -=	43.96N	112.70E	5ming= 282.	PHASE 109.	URB HI . 610HM R&W Emis-Ang.= 33. Lac is n.humbultian	CAMERADOR	7226+2 PH	• 511	8 7+6 14 N <sub>A</sub> ZH#259+4 3 NEPER+SCH	
CA	MaNAD .=	72.71N	72 - 45 W	SWING= 306.	PHASE= 82.	ORB LO.F#80HM B6W EMIS.ANG.# 6. LAC 15 M.HUMBOLTIAN	CAM.RAD	5112.2 KM	• 50	5	

CAMERA-LENS OR FILM-EXPOSURE

TOTAL PHOTOS IN THIS GROUP = 11

MIS MAG FR.PHOTU PRIN.PT. ORB GET

ALTI SCALE AT I I L T SUN SIDE.

NONE 1233K 15412500 278 74.2 11 -,

- NONE 1231K 15387500 279 24+3 11 --

- NONE LIBIK 1936066 279 23.4 11 "1

& N. E. PART OF LAC 29 BRUNG FABRY

CAH+RAD+= 2920+2 KH+ 5UN AZH#261+6

CAM.RAD. = 2978.2 KM. SUN AZM=262.7

& LAC 48 W.H.HOSCOVIEN

& LAC 48 W.H.HOSCOVIEN

AND FILTER TUDE PRING AT ANG. ANG. FWE

MIS MAG FR.PHOTO PRIN.PT. URB

SION HOLL OR LAT. # TIMES-HR H SEC

IHESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS. \$# #LMOST UNUSABLE PHOTOS,

TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

{+},(\*),; }, OR(0) # NO INFO ## APPROXIMATELY NEXT TO MAGE, B#BRACKET MOUNTED; G# CAM. ON GROUND

CAMERA-LENS AS FOLLOWS: 5W.A. # SUPER WIDE ANGLE LENS! EKTR#EKTAR 2.8 LENS!

HSB# HASSELBLAD! #AUR# MAUREK! ZP.ZH.ZS # ZEISS LENS!PLANAR.BIOGEN.SONAR): FOCAL LENGTHIMM: 6 MAX.F=OPENING

1.0. AS EXPOS SPEED # 1/1000 FOR \*\* TWO ZEROS)

FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOHETERS

COLUMN HEADINGS #PPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 3/XXX ON ORIG.NEG. AT PP IF ALT NOT O.

CAHERA-LENS OR

SENSOR

FII M\_F XPOSURE

CAM . RAD . m

1.4 M=N.MI PT. FR. TYPE ( = LSTIMATED) LUNG. HAIN VERT KaKM. - NONE 2982K 4984525 (07 2+1 27 -+1 36 41-65N 85-89E 8 \*\*\* \*\*\* 180452 5-12-67 LUNAR ORB HI. SIDHM BOW CAM-RAD -- 4721-2 KM+ SUN AZM=116+6 SWING= 271. PHASE= 68. EHIS+ANG.= 6. LAM.NAD. # 42.83N 81.305 LAC 29 BRUNG FABR & NORTHERN FART OF LAC 45 PLUTARCH. H & EASTERN PART OF LAC IS M.HUMROLTIANUM & LAC 16 - NONE 2956K 36950000 122 1+9 24 --E 4 2 46 41-02N 31-24E 16 ... 600 181300 5-16-67 LUNAR ORB LO-F-BOMM BEW SWINGE 286. PHASES 71. EMIS.ANG. 5. CAM.RAD. 4695.2 KM. SUN A7MSIII.47 CAM-N (D.= 42.80N 27.61E & LAC 44 CLEOMEDES.H.C LAC 46 ENDUXUS.BU : W>1/2 MOON SPHERE : LAC 16 : LAC 5 PETERHANN, HAYN - NONE 29478 36837500 100 2+1 24 -+ 1 4 2 91 42-03N 25-72E 17 \*\*\* \*\*\* 061439 5-17-67 LUNAR ORB LO-F=80MM R&M CAH.RAD. HABS. P. KH. SUN AZHETIZ.5 CAM. NAD. = 42.8UN 20.9DE SAING = 265. PHASE = 72. ENIS. ANG. = 6. I LAC I N.POLE NEARSING BYRD.PEARS LAC 16 : W>1/2 HOON SPHERE LAC 26 EUDUXUS.BURG - NONE 3428K 42850000 153 +8 12 L 4 2 104+ 70+35N 18+10E 19 ++\* ++\* G65708 5-18-67 LUNAR URB LO.F-80HH REN CAH+RAD+= 5167+2 KM+ SUN AZH=125+4 CAM-HAD-= 71-87N 15-88E SWING= 330. PHASE= 80. EHIS-ANG-= 3. : WI/4 HOONS SPHERE : LAC 58 COPERNICUS, REINHO : LAC 1 N. POLF NEARSIDE R & LAC 16 LAC 4 METONIDESITTER NONE 2905K 36312500 101 1-4 21 --L 4 2 115 42+28N 2+67W 21 \*\*\* \*\*\*\* 062212 5=19-67 LUNAR ORB LO.F=80MM B&M SUN AZMe 109+5 4644-2 KM+ PHASE= 73. EHIS:ANG.= 4. CAM+RAD+# Saing= 266. CAM-NAD-= 42.76N 5.70% LAC 25 CASSINITAL : WEST HOON SPHERE : LAC 76 RIPHAEUS H : LAC I N. POLE NEARSTOE BYRD. PFARY >80 N & LAC 16 - NONE 3355K 41937500 117 1.2 13 -. 1 4 2 140 71-068 16-318 25 -- - - 070801 5-21-67 LUNAR ORB LO.F = BOMM BEW CAH+RAD+# 5094+2 KM+ SUN AZH=127+7 PHASE # 81. EMIS.ANG. 3. CAH-NAD-# 72-21N 22-53W Saing# 297. LAC 3 PHILULAUS.B : W>1/2 MOON SPHERE : LAC 3B SELEUCUS.S : LAC 1 N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 16

I S. W. PART OF LAC 16

OF TO ME LES UP THE

15 2 158 37-94N 126-79E 64 ... ... 101UU6 8-16-67 LUNAR URB LO.F. HOMM BEW

L 5 2 163 38-16N 121-24E 67 \*\*\* \*\*\* 194259 8\*16-67 LUNAR ORB LO-F#80HM REW

1 5 1 181 41-85N 109-39E 74 ... 74 ... 175642 8-17-67 LUHAR ORB HI. 6:04M BEN

LAC 30 E-SZILARD | WI/4 HOONS SPHERE | LAC 31 WIENER | LAC 17

LAC JU E-SZILARD : WI/4 MUDNS SPHERE : LAC 31 WIENER : LAC 17

HESTERN PART OF LAC 30 E-SZILARD WELLS

CAM-NAD . 37-69N 152-57E SWING 90. PHASE 124. EM15-ANG. # 44.

CAH.NAD. 37.62N 147.19E SAING 90. PHASE 123. EHIS.ANG. 45.

CAM-HAD-= 41-01N 134-27E SWING= 90. PHASE= 121. EH15-ANG-= 42.

GET GHT M-DA-YR

MIS MAG FR.PHUTO PRIN.PT. ORB FILH-EXPOSURE ALTI SCALE AT IILT SUN SIDE. GET GMT M-DA-YR CAMERA-LENS OR AND FILTER TUDE PRING AZ ANG. ANG. FWD. SION ROLL OR LAT. W TIMES-HR M SEC SENSOR TYPE FR. LAP (3=ESTIMATED) M=N.MI PT. MIAM LUNG. K=KH+ VERT

TOTAL PHOTUS IN THIS GROUP . TO

MIS HAG FR.PHOID PRIN.PT. URB GET GMT N-DA-YR FILM-EXPOSURE CAMERA-LENS OR ALTI SCALE AT TILT SUN SIDE. SIUN RULL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. HIAN LONG. ( TEESTIMATED) TYPE HENSHL PT. FR. LAP K=KH. VERT 8 . .

- L 5 2 39 38+84N 159+43# 19 \*\*\* \*\*\* 105252 8-10-67 LUNAR ORB LO.F#80MH B&W NONE 1252K 1565DAND 283 26+8 10 -.\*\* Cam+Had+# 37+14N 128+86W SWING# 90+ Phase# 131+ Ehl5+ang+# 51+ Cam+Rad+# 2991+2 km+ SUN AZH=263+6 Lac 33 Schneller ; wi/4 huons sphere ; limb or horizon ; lac 20 coulomb & lac 52 Joule E+mach

- E 5 2 124 39.09N 142.80E 54 \*\*\* \*\*\* 022004 8-15-67 LUNAR URB LO.F=80MM B6N CAH.NAD.= 37.82N 170.89E 5HING= 91. PHASE= 125. EHIS.ANG.= 46. LAC 31 #1ENER : W1/4 MODNS SPHERE; LAC 18 TIKHOV : LAC 32 MUTTON
- L 5 2 158 37.94N 126.79E 64 \*\*\* \*\*\* 101006 8\*16-67 LUNAR ORB LO.F=80MM R6W CAH.NAD.= 37.69N 152.57E SWING= 90. 7HASE= 124. EMIS.ANG.= 44. LAC 30 E.SCILANO : W1/4 HUONS SPHERE; LAC 31 BIENER : LAC 17

- NONE 1237K 15462500 281 25.4 11 -... CAM-RAD-= 2976.2 KM- SUN AZM=262.9 & LAC 49 E.M.MOSCOVIEN
- NONE 1237K 15462500 281 25.0 11 +...
  CAM-RAD-m 2976.2 KM. SUN AZM#262.9
  & LAC 49 E.M.MOSCOVIEN
- NONE 1233K 15412500 278 24.2 11 -...
  CAM.RAD.= 2972.2 KH. SUN A7H=263.2
  & LAC 48 %.M.MOSCOVIEN
- \* NONE 1231K 15387500 279 24+3 11 --+\*\*
  AH-RAD-= 2970+2 KH+ SUN AZH=262+7
  6 LAC 48 W-M-MOSCOVIEN

HIS MAG FR.PHOTO PRIN.PT. ORB GET GHT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. MAIN LUNG. ( =ESTIMATED) TYPE HaM.NI PT. FR. LAP KeKM. VERT g, g

TOTAL PHOTOS IN THIS GROUP . 8

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THESE THU SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: . . DEGRADED PHOTOS. TILT ANGLES ; AZIMUTH OF DIRECTION OF TIET(AZ) & VERTICAL TO CAMERA AXIS SE ALMOST UNUSABLE PHOTOS. (=).(=).(). OH(U) = NO INFO W = APPROXIMATELY CAHERA-LENS AS FULLUMS: NEXT TO MAGE: BEHRACKET MOUNTED! GE CAM. ON GROUND S#.A. = SUPER WIDE ANGLE LENS: EXTREEKTAR 2.8 LENS: HSUM HASSFLBLAD! HAURE MAUHER: ZP.ZU. ZS W ZE155 LENS(PLANAR, BIOGEN. SONAR)! FOCAL LENGTHIMM; 6 HAX.F-OPENING TUE AS EAPOS SPEED # 1/1000 TOH . TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF IXXX ON ORIGINES. AT PP IF ALT NOT O.D.

MIS MAG FR.PHOTO PRIN.PT. ORB GET GMT H-DA-YR SIUN KULL OR LAT. # CAMERA-LENS OR TIMES-HR M SEC FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. MAIN FONG. SFNSOR ( =LSTIMATED: AND FILTER TUDE PRIN. AZ ANG. ANG. FRO. TYPE M=N.MI PT. FR. E 4 2 92 71-17N 32-23E 17 +3\* \*\*\* 065357 5-17-67 LUNAR ORB LO-F=80MM 86W LAP K=KM. VERT CAM-NAD-= 71-92N 29-48E Shing= 306. S. 8 " NONE 3457K 43212500 129 LAC 4 HETUN DESTE : LAC 7 KARPINSKY : LAC 41 APENNINES, : LAC 44 CLEOMEDES.M.CRIS. 46 12 CAH+RAD+# 5196+2 KH+ SUR AZH=127+4 & LAC IR TIKHOV

L 4 2 990 J.SIN 179.92E 18 000 0000 232421 5-17-67 LUNAR URB LO.FEROMM BLW LAC 68 SHAHUNGY : W>1/2 HOON SPHENE : LAC 118 JULES VER : LAC 65 GUYOT KING Saing# 294. - NONE 6142K 76774999 293 2.4 00 -.00 CAH+RAD+= 7881+2 KH+ SUN A7M#271.5 53 48.85N 176.10N 29 ... ... 184006 8-11-67 LUHAR ORB HI, 610HH B6W & LAC 18 TIKHOV

CAM-NAD. # 42.56N 146.998 5#ING= 107. NONE 1190K 1950820 297 25.6 9 PHASE= \$26. EHIS.ANG. # 47. LAC IS TIKHOV CAM+RAD+= 2929+2 KM+ N. W. PART OF SUN AZM#261+6 LAC 33 SCHNELLER

L 5 2 53 40.97n 176.11# 29 \*\*\* \*\*\* 1840U6 8-11-67 LUNAR URB EO.F-80MM 86# CAH-NAD-= 92-56N 147-HOW SWING= 107-NONE 1191K 14887500 297 25.6 9 LAC 18 TIKHUY PHASE 126. EMIS.ANG. # 47. I WI/4 MUONS SPHERE : LAC 50 MORSE

I LAC 51 JACKSON L 5 2 79 38+78N 167+58F 39 \*\*\* \*\*\* 023432 8-13-67 LUNAR ORB LO-F-80MM 860 SWING BY. PHASE 128. EMIS.ANG. 48. LAC 32 HUTTON 1 WIF HUONS SPHERE : LAC 33 SCHNELLER : LAC 18 TIKHOV

85 38.85N 158.87E 44 ... ... 182940 8-13-67 LUNAR ORB LO.F=80MM RGM CAM-HAD. 37.8UN 172.428 5\*11.G= 9U. PHASE 127. EMIS.ANG. 48. LAC 32 HUTTON 1 w1/4 MUONS SPHERE : LAC 18 TIKHOV 1 LAC 50 HORSE

L 5 2 143 38.84N 150.83E 49 ... ... 102451 8-14-67 LUNAR URB LO.F.BOMM B&W CAH. NAD. # 37.45N 178.75E SHING# 90. PHASE # 126. EHIS.ANG. # 47. LAC 31 HIEHER I WINT HOOMS SPHERE ! LAC 12 HUTTON : LAC IS TIKHOV

L 5 2 124 39.09N 142.8DE 54 ... 00 22UD4 8-15-67 LUNAR ORB LU.F#80MM B&W CAM-NAD = 37-82N 170-49E SWING 91. LAC 31 HIENER : WITH HOONS SPHERE : LAC 38 TIKHOV : LAC 32 HUTTON PHASE 125. EHIS.ANG. # 46.

CAM.RAD.m 2930+2 KM. SUN A7M=261+6 & LAC 32 HUTTON

\* NONE 1245K 15562500 281 25+8 11 ++++ CAM+RAD+# 2984+2 KM# SUN AZM#263+3 6 LAC 19 CARNOT ROBLAN

NONE 1239K 15487500 281 25+8 11 CAH-RAD-# 2978-2 KH+ SUN AZM#262-9 6 LAC 17

NONE 1237K 15462500 281 75.9 11 CAH+RAD+= 2976+2 KH+ 5UN AZH=262+9 & LAC 49 E.M. MOSCOVIEN

\* NONE 1237K 15462500 281 25+0 11 CAM+RAD+# 2976+2 KH+ SUN AZM#262+9 & LAC 49 E.M.MOSCOVIEN

ALTE SCALE AT TELT SUR SIDE. CAMERA-LENS OR FILM-EXPOSURE MIS MAG FR.PHOTO PRIN.PT. ORB GET GMT H-DA-YR SION ROLL OR LAT. SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. N TIMES-HR M SEC ( at STIHATED) TYPE M=N•MI PT• FR. LAP H H MAIG LUNG. VERT 8. 1 K+KH+

TUTAL PHOTOS IN THIS GROUP . 8

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- NOME 1245K 15562500 281 75+8 11 -+\*

& LAC 19 CARNOT ROWLAN

CAM+RAD+# 2984+2 KH+ 5UN AZH#263+3

THESE THO SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN: . . . DEGRADED PHOTOS. . . ALMOST UNUSABLE PHOTOS. TILL ANGLES : AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS (-).(-).(). CH(O) = NO INFO W = APPROXIMATELY NEXT TO MAGH, B=BRACKET HOUNTED; G= CAM. ON GROUND CAMERA-LENS AS FOLLOWS! SW.A. . SUPER WIDE ANGLE LENSI EKTREEKTAR 2.8 LENSI HSB= HASSELBLAD: HAUR= HAUREH: ZP.ZB.ZS = ZEISS LENS(PLANAR.BIOGEN.SONAR): FOCAL LENGTHIMM) & MAX.F-OPENING to+ AS EXPOS SPEED = 1/1000 (OR += TWO ZEROS) FOR LUNAR URBITER K AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE 15 THE XXX OF 1/XXX ON ORIGINEG. AT PP 1F ALT NOT U.

GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. MIS MAG FR.PHUTU PRIN.PT. URB GE T TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AT ANG. ANG. PHO SION RULL ON LAT. MAIN LUNG. (Importanted) TYPE M=N.M1 PT. FR. LA K=KH. VERT - NAME 6148K 76849999 25 +8 \*\* CAM-NAD-= .16N 134.86E SWING= 45. PHASE= 109. EMIS.ANG.= 4. CAH+RAD+# 7887+2 KH+ SUN AZM=271+7 DEGRADED NEGATIVE : LAC 66 MENDELEEV : 41/4 HOONS SPHERE : LAC 136 BAILLEY KIRCHER & LAC 19 CARNOT ROWLAN \* NONE 5015K 8221311 281 8-7 6 \*+\* LAM-NAD-= 24-16N 103-16% 5a1NG= 90. PHASE ILB. EHISOANG. 36. CAHORADON 6754.2 KH. SUN A7M=257+7 LAC 52 JULLE E-MA : WI/4 HOONS SPHERE : LAC 19 CARNOS ROW : LAC 20 COULOMB & LAC RY S.E. HERTISPRU L 5 1 29 59•12N 147•18W 9 ••• ••• 215131 8-08-67 LUNAR ORB H1. 610HH B6W " NONE 2548K 4177049 284 11.0 11 ".\* CAM+HAD+= 59+08N 113+56W SHING= 90+ PHASE= 107+ EMIS+ANG+= 28+ CAH+RAD -- 4287+2 KH+ SUN AZH=254+7 LAC 14 CARNUT HOW : w1/4 MOONS SPHERE : LAC 108 MOORIEN(S: LAC 134 HOLFZMANN & LAC 20 COULOMB 29 59.34N 147.21W 9 ... 9 ... 215131 8-08-67 LUNAR ORB LU.F=60MM R6W - NONE 2548K 31850000 285 11+0 11 ---CAM-HAD+# 59-68N 113-56W SWING 91. PHASE 107. EHIS.ANG. 28. CAM-RAD-# 4287-2 XM- SUN A7M#254-6 LAC 19 CARNUI RUM | LUNAR DISC FARSID : LUNAR N. HEMISPHE & LIMB OR HORIZON

TOTAL PHOTOS IN THIS GROUP #

1 5 2 79 38+78N 167+58E 39 \*\*\* \*\*\* 023432 8=13-67 LUNAR ORB LO+F=80HH B&W

LAC 32 HUTION : WI/4 MUONS SPHERE : LAC 33 SCHNELLER : LAC 18 TIKHOV

CAM-NAD = 37-72N 163-64W SWING= 89. PHASE= 128. EM15-ANG.= 48.

SE ALMOST UNUSABLE PHOTOS. THESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • = DEGRADED PHUTOS. TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS NEXT TO MAGN. BEBRACKET HOUNTED! G. CAM. ON GROUND (-),(+),( ), OR(y) = NO INFO W = APPRUXIMATELY SW.A. = SUPER wide ANGLE LENST EKTREEKTAR 2.8 LENST CAHERA-LENS AS FOLLOWS: MAURE MAURER! ZP.ZB.ZS = ZEISS LENSIPLANAR.BIOGEN.SONARI: FOCAL LENGTHIMMI & MAX.F-OPENING HSB= HASSELBLAD: Tue AS EXPOS SPEED # 1/1000 (OR \*\* TGO ZEROS) FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG. NEG. AT PP IF ALT NOT 0.0

FILM\_EXPOSURE ALTE SCALE AT TILT SUN SIDE. GMT M-DA-YR CAMERA-LENS OR HIS HAG ER, PHUIU PRIN, PT. URB GŁĪ AHG. ANG. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. A7 SIUN KULL OR (INESTIMATED) TTPE PT. FR. LAP I H . N = H MAIN LUNG. VERT 8. 8 K=KM.

- NONE 2447K 4339344 285 9 • 7 B 2 \*\*\* \*\*\* 112203 8-06-67 LUNAR ORB HI, 610MM B&6 5 57.694 111.749 SUN AZM#259.5 CAM-HAD- 58-97N 81-166 SWING= 90. PHASE 107. EHIS.ANG. 25. CAM . RAD . = 4384+2 KM+ & LAC 36 RONTGEN LOREN I WI/4 HOONS SPHERE I LAC 21 N.GERARD.B I LAC 9 CREMONA LAC 20 COULUMB
- NONE 2647% 33087500 286 9.7 8 5 59.91N 111.74W 2 \*\*\* \*\*\*\* 112203 8-06-67 LUNAR ORB LO.F=80MM B6W SUN A7M=259+5 CAM-NAD-# 58-97N 81-168 Swing= 91. PHASE 107. EMIS.ANG. = 25. CAM+RAD == 4386.2 KM. ; Wally Moon Sphere: Lunar No Hemisphe: Lac I Nopole Nearside Byrd. Prary and N & Lac 5 Peterhann, May LAC 20 COULDMB
- NONE 2448K 4340984 285 9.7 8 -.90 2 000 0000 112205 8-06-67 LUNAR ORB H1. 610HM 96W 6 59.63N 111-66H CAM-NAD . 58.94N 81.15W SainG# 90. PHASE = 107. EMIS.ANG. = 25. CAM+RAD . = 4387+2 KM+ SUN 42M=259+0 I WIVE MOONS SPHERE I LAC 21 N.GERARD.H I LAC 9 CREMONA & LAC 36 RONIGEN LOREN LAC 20 COULUMB
- HONE 2648K 33100000 286 9+7 8 -+90 2 \*\*\* \*\*\* 112205 8-06-67 LUNAR ORB LO.F. BOMM 864 6 59.85W [11.00W CAM . NAD . = 58 . 94N 81 . 15H 5" ING= 91. PHASE INT. EMIS.ANG. = 25. CAM . RAD . # 4387 . 2 MM . SUN AZH#259+6 : W>1/2 HOON SPHERE : LUNAR No HEHISPHE : LAC I NoPOLE NEARSIDE BYRDOPFARY >80 N & LAC 5 PETERHANNO HAY LAC 26 COULUMS
- NONE 2450K 4344262 285 9.7 8 7 59.56N 111.58N 2 000 0000 1122UB 8-06-67 LUNAR ORB HI, 610MM BEW SUN AZH#259+7 81.14% Swing= 90. PHASE= 107. EHIS.ANG.= 25. 4389.2 KM. LAC ZU COULOMB : WI/4 MOONS SPHERE : LAC 21 N.GERARD.B : LAC 9 CREMONA & LAC 36 RONTGEN LOREN
- NONE 2450K 33125000 286 9.7 8 -.90 7 59.78k 111.58a 2 ... ... 112208 6-06-67 LUNAR ORB LO.F. 80MM BEW 50N A7M=259.7 CAM-NAD-= 58.9IN 81.14W 5w1NG= 91. PHASE = 107. EHIS.ANG. = 25. CAH+RAD+= 4389+2 KH+ WOI/2 MOON SPHERE: LUNAR No HEMISPHE: LAC I NOPOLE NEARSIDE BYRD, PEARY >80 N & LAC 5 PETERMANN, HAY LAC 20 COULOMB :
- NONE 2652K 4347541 285 9.7 8 -.99 ( 5 L 8 59.49N 111.50W 2 \*\*\* \*\*\* 112211 8-06-67 LUNAR ORB H1. 610MM B&M SUN AZM=259+8 4391+2 KH+ CAM-HAD. # 58.88N BI-13# Swings 90. PHASE 107. EMIS.ANG. 25. CAM+RAD+= & LAC 36 RONTGEN LOREN 1 WI/4 HOONS SPHERE 1 LAC 21 N.GERARD.B 1 LAC 9 CREMONA LAC 20 COULUMB
- 9+6 8 2 \*\*\* \*\*\* 112211 8-06-57 LUNAR ORB LO.F.ROMM B&A NONE 2652K 33150000 286 8 59+72N 111-50d CAH-RAD. 4391+2 KH+ SUN AZH#259+8 SWING 91. PHASER 107. EMIS.ANG. = 25. CAM.NAD. = 58.88N 81.126 I W>1/2 HOON SPHERE I LUNAR No HEMISPHE I LAC I NOPOLE REARSIDE BYRDOPEARY >80 N & LAC 5 PETERHANNO HAY
- 9 59.43N 111.43W 2 \*\*\* \*\*\*\* 112213 8-06-67 LUNAR ORB HI. 610HM BOW NONE 2459K 4350820 295 9+6 8 -.90 Saliica 89. PHASE= 197. EHIS+ANG.= 25. CAM.RAD. . 4393+2 KM+ 5UN A7H=259+9 CAM+HAD+# 58+85H 81+12h & LAC 36 RONTGEN LOREN I WIVE HOORS SPHERE I LAC 21 N.GERARU.R : LAC 9 CREMONA

NONE 5757K 9437705 279 7.6 3 -.90

& LAC 123 STEKLOV

CAM-RAD-= 7496+2 KM+ SUN AZM#270+9

A The same of the

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PAGE 41
                          LAC 25 CUULOMB
  20
                                                                                    ALTI SCALE AT TILT SUN SIDE.
                                                   CAMERA-LENS OR
                                                                    FILM-EXPOSURE
MIS MAG FR. PHOTO PRIN. PT. ORB
                             GET GMT M-DA-YR
                                                                          AND FILTER TUDE PRIN. AZ ANG. ANG. FWO.
SION HOLL OH LAT. # TIMES-HR M SEC
                                                        SENSOR
                                                                                     H=N.MI PI.
                                                                                                 ₽R.
                                                                                                               LAP
                                                        TYPE
                   LONG.
                             ( THE STIMATED )
         MAIN
                                                                                                      VERT
                                                                                                               8, 8
                                                                                      KEKH.
                                                                          - NONE 2654K 33175000 286 9.6 8 -.90
         9 59.65N 111.42W 2 ... ... 112214 8-06-67 LUNAR ORB LU,F=80MM 86#
                                                                          CAH+RAD+# 4393+2 KH+ SUN AZM#259+8
                              Swing 90. PHASE 107. EHIS.ANG. 25.
   CAM-NAO-= 58-85N 81-11W
 LAC 20 COULONS I WOLZ MOON SPHERE I LUNAR N. HEHISPHE I LAC I N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 5 PETERMANN, HAY
                                                                           - NONE 2655K 4357459 285 9+6 8 -- 90
1 5 1 10 59-37N 111-35H 2 ++* ++** 112216 8-06-67 LUNAR ORB HI+ 610HH R6W
                                                                          CAM+RAD+# 4394-2 KM+ SUN AZH#259+9
    CAM-HAD. * 58-82N 81-11W SWING 89. PHASE 107. EMIS.ANG. * 25.
                                                                                           & LAC 36 RONTGEN LOREN
 LAC 20 COULONS : WI/4 MOONS SPHERE : LAC 21 N.GERARD.B I LAC 9 CREMONA
                                                                           - NONE 2656K 3320nnn0 285 9+6 8 -- 90
C 5 2 10 59.59N 111.34W 2 000 0000 112216 8-06-67 LUNAR ORB LO.F=80MM B6N
                                                                          CAH+RAD+# 4395+2 KH+ SUN A7H#259+9
    CAM-HAD .= 38.82N 81.10W SKING= 90. PHASE= 107. EMIS-ANG-= 25.
 LAC 20 COULDING 1 WOLZ HOON SPHERE ; LUNAR N. HEMISPHE ; LAC 1 N. POLE NEARSIDE BYRD. PFARY >80 N & LAC 5 PETERMANN, HAY
                                                                                NONE 2657K 4355738 284 9.6 8 -.90
        11 59-3un 111-28# 2 *** *** 112219 8*06-67 LUNAR ORB HI 6 610MM 86W
                                                                          CAM+RAD+= 4396+2 KM+ SUN AZM=260+0
                              SHING# 89. PHASE# 107. EMIS.ANG.= 25.
    CAM-NADe= 58.79N Bletow
                                                                                             & LAC 36 RONTGEN LOREN
 LAC 20 CUULUMB : WI/4 MOONS SPHERE : LAC 21 N. GERARD & : LAC 9 CREMONA
                                                                           - NONE 2657K 33212500 285 9+6 8 -+90
L 5 2 11 59-52N 111-27W 2 *** **** 112219 8*06-67 LUNAR ORB LO-F=80MM BCW
                                                                          CAH+RAD+# 4396+2 KH+ 58N A2H=260+D
                             SAING# 90. PHASE# 107. EMIS.ANG.# 25.
    CAM-NAD-= 58-79N 81-09W
 LAC 26 COULORS : W>1/2 HOON SPHERE : LUNAR N. HEHISPHE : LAC I N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 5 PETERMANN, HAY
                                                                           - NONE 2659K 4359816 284 9+6 8 -.98
E S 12 59-240 111-20W 2 *** *** 112221 8-06-67 LUNAR ORB HI. 610MM 86W
                                                                          CAM+RAD+# 4398+2 KM+ SUN AZH#260+1
    CAM-NAD .= 58.76N 81.09N SHING= 89. PHASE= 107. EMIS-ANG .= 25.
                                                                                          6 LAC 36 RONTGEN LORFN
  LAC 20 COULOMB : W1/4 MOONS SPHERE : LAC 21 N.GERARDIB : LAC 9 CREMONA
                                                                            - NONE 2659K 33237500 285 9.6 8 -.90
L 5 2 12 59.46H 111-19H 2 +++ ++++ 112222 8-06-67 LUNAR ORB LO.F. BOMM BEW
                                                                          CAH-RAD+# 4398+2 KH+ SUN AZM#260+1
                              Swing 90. PHASE 107. EHIS.ANG. 25.
    LAM-NAD-= 58.75N 81.08W
 LAC 20 COULOMB : WOLZ HOOM SPHERE : LUNAR N. HEHISPHE : LAC I N. POLE NEARSIDE BYRD. PEARY >BO N & LAC 5 PETERMANN. HAY
£ 5 1 13 14-32N 102-40W 2 *** *** 133325 8-06-67 LUNAR ORB HI. 610MM B6W
                                                                            - NONE 5755K 9434426 279 7.6 3
                                                                           CAM+RAD+= 7494+2 KM+ SUN AZM=270+8
                                             PHASE= 122. EHIS.ANG.= 35.
                              5wing # 92 *
    CAM-NAD-= 11-15N /4-61W
                                                                                             & LAC 123 STEKLOV
 LAC 72 ELVEY NOBEL : WI/4 MOUNS SPHERE : LAC 20 COVLOMB : LAC 35 LANDAU
                                                                            - NONE 5756K 94360A6 279 7.6 3
1 5 1 14 14-27N 102-39W 2 *** **** 133328 8-06-67 LUNAR ORB HI. 610MH REW
                                                                           CAH+RAD+= 7495+2 KH+ SUN AZH=270+8
    CAM-HAD . # 11-14N 74-61W SWING 92. PHASE $22. EHIS-ANG. 35.
                                                                                             & LAC 123 STEKEDY
 LAC /2 ELVEY NOBEL : WI/4 MOONS SPHERE LAC 20 COULONS : LAC 35 LANDAU
L 5 1 15 14-23N 162-38N 2 ... ... 133330 8-06-67 LUNAR ORB H1. 61DHH 86W
                                                                            - NONE 5756K 9436066 279 7.6 3
                                                                           CAN+RAD+# 7495+2 KH+ SUN AZM#270+8
    LAM. "AD. = 11.13N 74.61W SWING= 92. PHASE= 122. EMIS.ANG. = 35.
                                                                                             & LAC 123 STEKLOV
 LAC /2 ELVEY HUBEL : WI/4 MUONS SPHERE : LAC 20 COULDMB : LAC 35 LANDAU
                                                                            - NONE 5757K 9437705 279 7+6 3
L 5 1 16 14-18N 162-37# 2 *** -4** 133333 8-06-67 LUNAR ORB HI. 619MM REW
                                                                           CAM-RAD-# 7496+2 KM+ SUN AZM#27(+6
                                            PHASE # 122. EMIS.ANG. = 35.
     CAM-NAD . = 11-12N 74-60% SWING = 92.
                                                                                             & LAC 123 STEKLOV
 LAC /2 LLVEY HUBEL : WI/4 HOONS SPHERE : LAC 20 COULOMB : LAC 35 LANDAU
```

15 1 17 14-13| 1-2-36N 2 ++\* 133336 8-06-67 LUNAR ORB H1 610MM B6W

CAM-HAD. # 11-11N 74-60W 5WING# 92. PHASE# 122. EHIS-ANG. # 35.

LAC /2 ELVET HUBEL : 41/4 MOONS SPHERE : LAC 20 COULOMB : LAC 35 LANDAU ORIGINAL PAGE IS POOR BULKODOCHRILL OF THE

2104	# MAIN	LONG.	(f=ESTIMATED)		SENSOR Type	AND FILTER	TUDE PRIN. A H=N.MI PT. K=KH.	VERT # #
	1 18 14-04H CAM-NAD-= 11-19N 72 ELVET NUBEL 1	74.638	S#18G= 92.	PHASES 122	2. FM15Nc.# 39		5758K 9439344 2 7497•2 km• S & LAC	UN AZM#270°9
	1 19 14-04N CAM-NAD-# 11-09N 72 ELVET NOBEL 1	74 • 60¥	Swings 92.	PHASE= 123	2. EHIS.ANG.= 39	. CANTRAD.s	5758K 9439344 2 7497•2 KM• S & LAC	79 7.6 390 UN AZH=270.9 123 STEKLOV
	E 20 14-00N CAM-NAO-# 11-08N /2 ELVEY NUBEL ;	74 • 60 W	Sping= 92.	PHASE# 122	2. EHIS.ANG.= 39	- CAMERADE	5758K 9439344 2 7497+2 KH+ S 6 LAC	
	NED-PS CAN-HAZ	86.32N	2011fc= 50°	PHASE= 119	9. EHIS.aNG.# 37	B&W - NONE 7- CAM-RAD SEN : LAC 20 COUL	4748.2 KM. 5	HN ajmajajaŭ
	CAMENADO - SUOJSN	77•81h	>WING= 89.	PHASE 101	r. fmlSaancam of	B&K - NONE - CAM-RAD.+ I.V.BOUVARD	# # # # P P P P P P P P P P P P P P P P	IIN AZMESEDAD
	2 25 59+3uN CAM+NAD+= 58+75N 20 COULONS :	99 = 8   H	SWING# 90.	PHASE= 107	7. EHIS.ANG.= 29	B&W = NONE • CAM•RAD•# ON	2552k 319000g0 2 4291•2 kH• S	84 9.9 8 -,•• Un azm=258.8
	1 28 26.39N CAM.NAD.= 24.16N 52 JUULE E.MA 1	\$03+F9A	Swings 90.	PHASE= 118	B. EMIS.ANG. = 36	CAMARADA =	6754.2 KH. S	8  8•7 8 •,•• UN AZM=267 <sub>0</sub> 7 R9 S•E•HERTZSPRU
	CAMENADO = DY - USN	113.568	>#ING± 98•	PHASE INT	7. FH15.ANG.= 28	B&W - NONE CAM•RAD•=	4287.2 PM. 5	IIN .7H=254.7
	2 39 38+84N . CAM+HAD+= 37+14N .33 5CHNELLER ;	120.86*	Swings 90.	PHA5E= 131	. EMIS.4NG.= 51	AGW - NONE • CAM•RAD•= B	1752K 15650000 2 2991+2 KM+ Si 6 LAC	UN AZM#263+6

TOTAL PHOTOS IN THIS GROUP . 36

.1

MIS MAG FR.PHOTO PRIR.PT. ORB GET GMT M-DA-YR CAMERA-LENS OR F1LH\_EXPOSURF ALTI SCALE AT TILT SUN SID SION ROLL OR LAT. # TIMES-HR M SEC SEN5OR AND FILTER TUDE PRIN. AZ ANG. ANG. F MAIN LUNG. ( = LSTIMATEDI TYPE M=N.MI PT. FR. K=KH. VERT L 4 2 162 13.23N 62.18W 29 \*\*\* \*\*\* 06020B 5-23-67 LUNAR ORB LO.F. BODHH BGW - NONE 2670K 33375000 243 1.0 17 + CAM-NAD-# 13.93N 60.75N SWING# 57. PHASE# 71. EMIS-ANG.# 3. CAM-RAD-# 4409.2 KM. SUN AZM# 93.4 LAC 56 HEVELIUS.R 1 W>1/2 MOON SPHERE 1 LAC 109 PIAZZI.V. 1 LAC 21 N.GERARD.BOOLE & LAC 25 CASSINI.ALPS L 4 2 169 13.7cm 68.49# 30 ... ... 1803UZ 5-23-67 LUNAR URB LO.F=80MM 86# - NONE 2672K 33400000 248 +8 17 -CAMeHADem 14-14N 67-33H SHINGE 62+ PHASEE 71+ EMES-ANGEE 2+ CAMeRADem 4411-2 KM+ SUN AZM 93.5 LAC 56 HEVELIUS.R : W>1/2 HOUN SPHERE : LAC 109 PIAZZI, V. : LAC 21 N.GERARD, BOOLE & LAC 12 PLATO ALPINE £ 4 2 174 13+37N 76+00W 31 \*\*\* \*\*\* 060318 5-24-67 LUNAR ORB £0.F=80MM 86W

- L 4 2 174 13-37N 76-00N 31 \*\*\* \*\*\* 060318 5-24-67 LUNAR ORB LO.F=80HH 86W NONE 2673K 33412500 255 1-3 16 -CAM-NAD-= 13-91N 73-95N SWING= 69. PHASE= 71. EMIS-ANG.= 3. CAM-RAD-= 4412-2 KM- 5UN AZM= 93-0
  LAC 55 VASCUDEGAN : W>1/2 MOUN SPHERE : LAC 109 PIAZZI,V. : LAC 21 N.GERARD.BOOLE 6 LAC 24 SINUS IRIDUM
- L 4 2 181 13-095 82-19W 32 \*\*\* \*\*\* 173307 5-24-67 LUNAR ORB LO.F#80MM 86W NONE 2724K 34050000 76 \*9 15 CAM-NAD-# 14-405 82-86W SWINGE 212\* PHASE= 76\* EMIS-ANG.# 2\*\* CAM-RAD-# 4463-2 KM\* SUN AZM= 85\*7 LAC 73 RICCIDLI,NE-ORIENTAL : W>1/2 MOON SPHERE : LAC 143 S-HAUSEN LEGENTIL & LAC 21 N-GFRARD,800
- L 4 2 182 15-26N 81-42W 32 \*\*\* \*\*\* 180342 5-24-67 LUNAR ORB LO-F#8DMM B&W NONE 2674K 33425800 379 1-0 16 CAM-NAD-# 13-88N 80-57W SWING# 143+ PHASE# 72+ EMIS-ANG-# 3+ CAM-RAD-# 4413-2 KM+ SUN AZM# 93-7
  LAC 55 VASCUDEGAM : W>1/2 MUON SPHERE : LAC 123 STEKLOV : LAC 21 N-GEMARD-BOOLE & LAC 24 SINUS IRIDUM
- L 4 2 188 13-39N 89-22W 33 \*\*\* \*\*\* B604U9 5-25-67 LUNAR ORB LO-F=80MH B6W NONE 2675K 334375DD 255 1-3 15 
  CAM-NAD-= 13-92N 87-19# SWING= 69\* PHASE= 72\* EMIS-ANG-= 3\* CAM-RAD-= 4414-2 KM\* SUN AZH- 92-7

  LAC 55 VASCUULGAM | W>1/2 HOON SPHERE | LAC 123 STEKLUV | LAC 21 N-GERARD-BOOLE 6 LAC 29 51NUS IRIDUM
- 1. 4 1 189 41-71N 79-99W 33 \*\*\* \*\*\* 063636 5\*25\*67 LUNAR ORB H1. 61DMM B&W -- NONE 2878K 471R033 110 1.9 18 --Camenadem 42.88K 84.00K Swingm 273. Phasem 77. Emiseangem 5. Cameradem 4617.2 km. 50K azmm106.1 Mesienn Part of Lac 22 Seegeraro, Bunsen, Harding : Lac 21 N. Gerarde, 8 6 Lac 10 Babbage, N. Procelarm.

HIS MAG	FR.PHUTO:	PRIN.PT. ORB	GET GH	I M=DA=IH S€C	SEUSOR	AND FILTER	TUDE	PRIN. AZ	ANG. ANG. I
H H	HAIN	LONG.	(#ESTIMATE	( פ	SEUSOR TYPE				FR+ VERT
CAN	19.86 # GAN	N 81+14W	SHING= 98	<ul><li>PHASE</li></ul>	LUNAR ORB H1. 610MH 107. EHIS+ANG.= 2 RD+B : LAC 9 CREMON	5. CAM-RAD-m	4389.2 K	M∗ SU	S 9.7 8 ° N AZM=259.7 6 RONTGEN LORI
Camel	NaD. * 58.88	N 81 . 13W	SWING= 90	<ul><li>PHA5E</li></ul>	LUNAR ORB HI. &IOMM 107. EMIS.ANG.# 2 RD.B I LAC 9 CREMON	5. CAM-RAD.=	2452K 4 4391•2 K	H• 5U	5 9.7 B N AZM#259.B 6 RONTGEN LORI
CAMe	NAD.= 58.85	N 81.12W	5#1NG= 89	. PHASE	LUNAR ORB H <sup>I</sup> - 610MM = 107 - EHIS+ANG+= 2 RO+B I LAC 9 CREHON	S. CAM+RAD+=	2454K 4 4393•2 K	H. SU	S 9+6 B N AZM=259+9 6 RONTGEN LOR
CAM	NaDa= 58.82	N 81.11W	S#1NG= 89	. PHASE	LUNAR ORB HI: 610HM = 107. EHIS:ANG.= 2 RD:B : LAC 9 CREMON	5. CAM-RAD-=	2455K 4 4394•2 K	M∗ SU	5 9°6 8 N AZH=259°9 6 RONTGEN LOR
CAM.	NAD -= 58-79	N 81.10W	5W1NG= 89	<ul><li>PHASE*</li></ul>	LUNAR ORB HI. 610MM * 107. EHIS+ANG.* Z Ruib I Lac 9 cremon	S. CAP RAD	4396 . 2 K	M • 5U	4 9+6 B IN AZM=260+0 I6 RONTGEN LOR
E A III a	NaDa= 58.26	N 81-09W	SWING= B9	. PHASE:	LUNAR ORB H1. 610HM = 107. EM15.ANG.= 2 RD.B : LAC 9 CREMON	5. CAM-RAULE	2659K 4 4398•2 K	M• SU	14 9+6 8 In Azm=260+1 16 Rontgen Lor

HIS MAG FR. PHUTO PRIN. PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE.

TOTAL PHOTOS IN THIS GROUP = 15

GET

GHT

HIS HAG FR.PHOTO PRIN.PT. ORB

S\_ ALMOST UNUSABLE PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZY & VERTICAL TO CAMERA AXIS (-),(+).( ). OKIG) = NO INFO = APPRUXIMATELY NEXT TO MAGE, BERRACKET MOUNTED! G= CAM. OH GROUND CAHERA-LENS AS FOLLOWS: SW.A. . SUPER WIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HERE HASSELBLAD! HAURE MAURER: LP. IB. LS . ZEISS LENS (PLANAR, BIOGEN, SONAR): FOCAL LENGTH (MM) & MAX.F-OPENING 10 AS EXPOS SPEED = 1/1000 (OR += TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGINES. AT PP IF ALT NOT DATE

CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. B TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG ANG FWD. HAIN LUNG. (I=ESTIMATED) TYPE H=N.H1 PT. FR. Ħ K=KM. VERT E 4 2 156 14-875 55-80W 28 \*\*\* \*\*\*\* 173843 5-22-67 LUNAR ORB LO.F.\*80MM R&W \* NONE 2722K 34025000 135 .4 17 -. \*\*

THESE THO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: . \* DEGRADED PHOTOS.

M-DA-YR

CAH-HAD-= 14-395 56-29# Swing= 321. PHASE= 74. EMIS-ANG.= 1. CAM+RA9.= 4461.2 KM. SUN AZH= 84.7 LAC 74 GRIHALUL.B : WOON SPHERE : LAC 136 BAILLEY.K : LAC 22 SE.GERARD.BUNSEN.HARDING & LAC 40 TIMOCHARIS, LA

L 4 2 161 15-135 61-98# 29 \*\*\* \*\*\*\* 053134 5-23-67 LUNAR ORB LO.F.BONN B&W NONE 2723k 34037500 129 +8 17 +.AI CAM-NAD-= 14-365 62.04W SWING= 315. PHASE= 75. EMIS-ANG.= 2. CAM+RAD+# 4462+2 KH4 5UN AZM# 84-7 LAC 74 GHIMALUI.B ; W>1/2 MOUN SPHEME : LAC 136 BAILLEY.K ; LAC 22 SE.GERARD.BUNSEN.HARDING & LAC 58 COPERNICUS.RE

L 4 2 164\* 70\*20N 41\*50W 29 \*\*\* \*\*\* 071247 5=23-67 LUNAR ORB LO.F#80MM 86W - NONE 3346K 41825000 136 1\*4 13 -.\*\* CAM-NAD .= 12.26N 47.11W SWING 313. PHASE # 81. ENIS.ANG .= 4. CAM+RAD+# \$085+2 KM+ SUN AZM=126+8 LAC 2 AMAXIMENES, PASCAL \$ \$21/2 HOON SPHERE : LAC 22 SE.GERARD.BUNSEN. : LAC 15 H.HUHBOLTIANUM & LAC 92 H.SERENITY

L 4 2 168 14.445 68.184 30 ... ... 173229 5-23-67 LUNAR URB LU.F. AOMH BAN \* NONE 2722K 34025000 103 .9 17 -.\*\* CAM-NaD. # 14-145 69-56# SWING= 288. PHASE= 76. EHIS-ANG. 2. CAM+RAD+= 4461+2 KM+ SUN &ZH= 84+9 LAC 74 GRINALDI.B : W>1/2 HOON SPHERE : LAC 124 PHOCYLIDE : LAC 22 SE.GERARD.BUNSEN.HARDING 6 LAC 57 KEPLER.ENCKE

L 4 1 170 41.77N 59.60W 30 ... ... 183518 5-23-67 LUNAR ORB HI. 610MM 86W NONE 2871K 4704557 108 2+2 20 -- 75 CAH+NAD+= 43+UUN 64+22m SHINGE 271. PHASE 76. EMIS.ANG. 6. CAM+RAD+= 4410+2 KH+ SUN A7H=107+7 LAC 23 RUMKER, SHARP : LAC 22 SE.GERARD.BUNSEN.HARDIN: LAC 10 BABBAGE.N.PROCELARM. & LAC 11 J.HERSCHEL.J

L 4 I 175 41+29N 66+78W 31 \*\*\* \*\*\*\* Q63541 5-24-07 LUNAR ORB HI + 610MM B&W T NONE 2872K 4708197 116 240 19 +476 CAM-NAD-= 42-86N 70-79H 5WING= 280. PHASE= 76. EMIS-ANG.= 5. CAM+RAD+# 4611+2 KM+ SUN AZH#106+8 LAC 22 SE-GERARD BUNDEN HARDING I LAC 23 RUMKER, SHARP ; LAC 10 BABBAGE N. PROCELARM. & LAC 1. J. HERSCHEL. J

L 4 2 175 41-29N 66-78W 31 \*\*\* \*\*\*\* 063541 5-29-67 LUNAY ORB LO-F=BORM BOW \* NONE 2872K 35900000 116 2.0 19 -.90 CAH. HAD. = 42.86N 70.79h SRING= 279. PHASE= 76. EMIS.ANG. = 5. CAH + RAD - 4611 - 2 KH - SUN AZH = 106 - 8 LAC 22 SE.GEKARD, BUHSEN, HARDING 1 A>1/2 HUON SPHERE I LAC 73 RICCIOLI, NE. ORIENTAL & LAC I N. POLE NEARSI

L 4 & 162 15-26N 81-41M 32 -\*\* --- 180342 5-24-67 LUNAR ORB HI. 610MM REW " NONE 2474K 4383607 329 1.0 16 -46 CAM-HAD-# 13-88H 80-57H SWING# 143+ PHASE# 72+ EMIS+ANG+# 3+ CAM-RAD-# 4413+2 KM+ 5UN AZM# 93+7 CENTRAL PART UP LAC 55 VASCODEGAM : CENTRAL PART OF LAC 37 STRUVE DAL : LAC 73 RICCIDLI NE ORIENT & LAC 22 SE GERARD BUN

( 4 1 183 43-53N 71-U2N 32 \*\*\* \*\*\*\* 1836U7 5-24-67 LUNAR URB HI: 610HH 86W -NONE 2974K 4711475 79 2.8 20 -.79 CAM-NAD-= 42-84N 77-39H SWING= 243- PHASE= 77- EMIS-ANG.= 8- CAM-RAD-= 4613-2 KM- SUN AZM=198-9 EASTERN PART OF LAC 22 SE-GERARD. BUNSEN, HARDING : LAC 23 RUNKER, SHA & LAC 37 STRUVE. DALTON

	HAG HULL #		PRIN-PT. URB LAT: # LUNG.	GET GMT TIMES-HR M SEC (=ESTIMATED)	M-DA-YR CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. N=N-HI PT. K=KM.	AZ ANG. ANG. Fr•	
4 ن	2	183 43.5	3N 71.02W 32	*** *** 183607	5+24-67 LUNAR ORB EU.FRBOMM	Disk a Nove	. 2074× 35025000	VERT	8 · 8

- L 4 1 189 41.71N 79.99% 33 004 0040 063636 5-25-67 LUNAR ORB HI. SIOMM B&W NONE 2878K 4718B33 IID 1.9 18 -.77

  CAM-NAD-= 42.88N 84.00% SHING= 273. PHASE= 77. EMIS-ANG.= 5. CAM-RAD-= 4617.2 KM- SUN AZM=106.1

  RESILAN PART OF LAC 22 SE-GERARD.BUNSEN.HARDING ; LAC 21 N-GERARD.B 6 LAC IN BABBAGE.N.PROCELARM.

TOTAL PHOTOS IN THIS GROUP = 12

MIS MAG FRIPHUTO PRINIPT. URB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. UH LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAII LUNG. ( = ESTIMATED) TYPE M#N+H1 PT. FR. LAP K=KM. VERT 8. 2

- L 4 2 125 14.895 22.978 23 \*\*\* \*\*\* 052314 5~20~67 LUNAR ORB LO.F=80MM B&M NONE 2717K 33962500 170 \*3 19 ~\*\*90

  CAM-RAD.= 14.405 23.06W SWING= 356\* PHASE= 71\* EHIS\*ANG\*= 1\* CAM-RAD\*= 4456\*2 KM\* SUN AZM= 84\*2

  LAC 76 KIPMALUS M ; \$\infty\) 172 MOUN SPHERE ; LAC 128 BIELA, WAT ; LAC 23 RUMKER, SHARP & LAC 26 EUDOXUS\*BURG
- L 4 2 143 14-275 41-414 26 \*\*\* \*\*\* 172822 5=21-67 LUNAR ORB LO-F#80MM B6W NONE 2719K 33987500 A5 1-0 19 -- B

  CAM-NAD-# 14-415 42-78W SWING# 271- PHASE# 74- EMIS-ANG-# 3- CAM-RAD-# 4458-2 KM- SUN AZM# 84-3

  LAC 75 LETKUNNE-F : W>1/2 MOON SPHERE; LAC 128 BIELA-WAT; LAC 23 RUMKER-SHARP & LAC 41 APENNINES-HAE

- L 4 Z 151 40-88N 40-20W 27 \*\*\* \*\*\* 063228 5-22-67 LUNAR ORB LO-F-80HM R&R NONE 2866K 358250ND 118 2-4 21 --\*\*

  CAM-4AD-- 42-84N 44-74N Shing= 282- PHASE= 75- EMIS-ANG-= 6- CAM-RAD-= 4603-2 KM- SUN AZM=108-3

  LAL 2J RUMKER-5HA 1 -->1/2 MOON SPHERE ; LAC 74 GRIMALDI-B ; LAC 1 N\_POLE NEARSIDE BYRD-PEARY >80 N & LAC 13 ARISTOTE--MoF
- L 4 1 158 41.79N 47.66M 28 \*\*\* \*\*\* 183333 5-22-67 LUNAR ORB HI 610MM 86W NONE 2866K 4698341 106 1.7 20 -.78 Cam.Nad.= 42.85N 51.22W Swing= 271. Phase= 75. Emis.ang.= 4. Cam.Rad.= 4605.2 km. Sun azm=107.7 Eastehn Part of Lac 23 Rumker.shar : Lac 24 Sinus Iridu : Lac 111 Wilhelm.E : Lac 38 Selencus.schroter v. 6 Lac 39 Aristarch
- L 4 L 1-63 41-21N 53-38W 29 000 0000 063426 5-23-67 EUNAR ORB HI- 610MM 86W NONE 2867K 4700000 115 2-2 20 --76

  CAN-NAD-- 42-87N 57-71W SWINGW 279- PHASEW 76- EMIS-ANG-W 6- CAM-RAD-W 4606-2 KM- SUN AZMW107-7

  CENTRAL PART OF LAC 23 KUMKER-SHARP : LAC 10 BABBAGE-N-PR ; LAC 11 J-MERSCHEL-J & NORTHERN PART OF LAC 38 SELEUCUS-SCH

€ 5 2 185 30+37N 41+36# 76 +++ 233011 8-17-67 LUNAR ORB LO-F#80MM REW -

S. F. PART OF LAC 23 RUMKER, SHARP

CAM-RAU .= 35.94N 44.79W

NONE 173K 2162500 312 6.3 15 -.87

MIS MAG FROPHUTO PRING SIUN KULL OR LATO MAIN L M	# TINES-HR # SEC		SENSOR	AND FILTER	TUDE PRIN.	T 1 L T SUN SIDE, AZ ANG. ANG. FWD. FR. LAP VERT S. \$
£ 4 1 17u 41•77n 59. Cam•nad•≈ 43•Jun 64 Lac 23 Rumker,5hamp	.60W 30 *** *** 183518 4.22W Swing= 271. 1 LAC 22	5-23-67 LUNAR PHASE* 76. Se.GERAND, BUNSE	ORB HI. 610HH : EMIS.ANG.* 6 N.HARDIN: LAC	BGW - NONE • CAM-RAD-= IO BABBAGE,N.PROCEL	2871K 4706557 4610+2 KM+ ARM+ & LAC	108 2.2 2075 SUN A7M#107.7 11 J.HERSCHEL,J
L 4 2 170 41•78N 59• Cam-Nado= 43•Jun 64 Lac 23 Rumker, Sharp	•60% 30 ••• ••• 183518 4•22% SWING= 271• ; \$21/2	PHASE= 76.	EMIS.ANG.= 6	· CAMARAD.»	4410.2 KM.	SUN .7M=107.7
L 4   1/5 41+29N 66+ Cam-Mad+= 42+86N 70 Eac 24 St+Genard,Buns	•78# 31 ••° •••• 063541 0•79# Swing# 280• 5EN•HARDING ; LAC 23	PHASF= 76.	FRISANC.= 5	e CAMARADAM	4411a2 PM.	SUN JAMMINAMA
L 4 1 183 43.53N 71. Lan.Nad. # 42.84N 77 Lastern Part up Lac	•ÜZN 32 ••• ••• 183607 7•39W	PHASE= 77.	FMIS.ANG. = 8.	CAM-RAD	4412.2 rH.	79 2.8 2079 5UN AZM#108.9
L 5 i 182 34•96N 41• Cam•nad.= 34•67N 40 S•	.50W 76 ••• ••• 232947 3•95h	PHASE= 69.	ORS HI. 610MM   EHIS-ANG.# 6	B&W - NONE • CAM•RAD•=	167K 273770 1906+2 KH+	302 5.5 15 SUN AZM# 99.3
. 5 2 182 34•97N 41• 186•PL ≖.∪AH-HAD 18	•52H 76 ••• ••• 232948 D•95H Shing= 207. • E• PART OF LAC 23 RU	PHASE± 69.	ORB LO.F=80MM ( EHIS:ANG.= 6	RGW = NONE • CAM-RAD-=	167K 2087500 1986+2 KM+	302 5.7 15** SUN AZM# 99.3
C 5 i id3 35+43N 41+ CAH+140+# 35+09N 40 S•	-45H 76 232955 1-96H SKING= 211- - E- PART OF LAC 23 RU	PHASE = 69.	ORR H <sup>1</sup> . 610MM   EMI5.ANG. = 6	B6n + NONE • CAM+RAD•≡	169K 277049 1900•2 KH•	306 5.7 15 ~, 7 SUN AZH# 99.5
С 5 2 183 3⊃•94N 41• Сам•ндр•= 35•16N 4ñ S•	.47# 76232955 N.904 SWING= 210. E. PART OF LAC 23 RU	8-17-67 LUNAR Phase= 69. Mker:Sharp	ULU LO.F#AOMM ( EHIS+ANG+# 6	B&W - NONE • CAM+RAD+=	169K 2112550 1908•2 KH•	305 5.9 15 -,87 SUN AZH# 99.5
L 5 1 184+ 35+89N 41+ Cam+nad+= 35+51N 4u S-	•40# 76 ••• ••• 2330U3 J•844 S <sub>1</sub> 1NG= 214• • E• PART OF LAC 23 RU	PHASE= 69.	ORB H <sup>I</sup> . 610HH   EHIS.ANG.= 7	B&W = NONE - CAM+RAD•=	171K 280378 1910+2 KM+	309 6.0 15 -, 8 SUN A7H# 99.6
t 5 2 ±84 35∘9ωN 4‡∘ 12 π50∘20 ≖•αΩΝ«ΑΑΑ 13 π50∘20 π60 π60 π60 π60 π60 π60 π60 π60 π60 π6	.424 76 ••• «•• 233003 0-844 Swings 214. • E. Part UF Lac 23 RU	PHASE= 69.	URB LOIF#80MM   EMIS+ANG.# 7	B&W - NONE - CAM•RAD•=	171k 2137500 1910-2 KM+	309 6+1 1587 SUN AZH# 99+6
L 5 1 185 36+36N 41+ CAM+HD+# 35+93N 4U S+	.354 76 *** *** 233ull J.79W Swing= 218. E. Part of Lac 23 rui	PHASE= 69.	ORB HI. SICHN PENIS.ANG. 7	- CAM•PAD•=	173K 283607 1912+2 KM+	313 6+2 15 -, 9 SUN AZH= 99+8

SWING= 217. PHASE= 69. EMIS.ANG.= 7. CAM.RAD.= 1912.2 KM. SUN AZM# 99.8

	MAG Rull	FR.PHOTO	PRIN.PT. URB	GET GHT TIMES-HH M SEC	H+DA-YR	CAMERA-LENS OR SENSUR	FILH-EXPOSURE	ALTI SCALE AT	TILT SU	-
8	#	HAIN #	FONG.	(T=ESTINATED)		TYPE		H=N+H[ PT. K=KH+	FR. VERT	LAP B, B

TUTAL PHOTOS IN THIS GROUP # 21

THESE TWO SYMBOLS NEATTO MIN OR PHOTO NUMBER MEAN: - = DEGRADED PHOTOS, \$ # ALMOST UNUSABLE PHOTOS,

IILI ANGLES: AZIMUTH OF PRECION OF TILITAZE & VERTICAL TO CAMERA AXIS

(-).(0).() \*\* NO 10 \*\* NO 10 \*\* \*\* APPROXIMATELY NEXT TO MAGE B BRACKET MOUNTED; G\*\* CAM\*\* ON GROUND

LAMERA-LENS AS FOLLOWS: SWAA\* = SUPER WIDE ANGLE LENS! EKTR\*\*EKTAR 2.8 LENS!

HSB\*\* HASSELBLAD! \*\* HA 11. MAURER! ZP.ZB.ZS \*\* ZEISS LENS!PLANAR.BIOGEN.SONARE: FOCAL LENGTHIMM! & HAX\*\*F-OPENING

LO\*\* AS EXPOS 517F0 \*\* 1/1 \*\* OU (OR \*\*\* TWO ZEROS!

FOR LUNAR ORBITER X \*\* PER ALTIFUDE EQUALS KILOMETERS

LOUGHN HEADINGS APPL\*\* TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1/XXX ON ORIG.NEG. AT PP IF ALT NOT O.D.

**W**.

- MIS MAG ER. PHUTU PRIN. PT. URB GŁ T GHE H-DA-YR CAMERA-LENS OR FILM\_FXPOSURF ALTI SCALE AT TILT SUN SIDE. SIUN ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. MAII LUNG. ( = ESTIMATED) TYPE FR. H⇒N.HI PT. LAP K=KH. VERT 8 . A
- L 4 1 122 42.07N 9.24H 22 0.0 0.00 [824]] 5-19-67 LUNAR ORB HI. 610HH 86W NONE 2895K 4745902 [05 1.4 2] -.77

  CAM-NAU.= 42.76N 12.27N SWINGE 27D. PHASE= 73. EMIS.ANG.00 4. CAM-NAU.= 4634.02 KM. SUN AZH.4109.1

  BESIEMN PART OF LAC 25 CASSINI.ALP I LAC 24 SINUS IRIDU I LAC 12 PLATO.ALPI I LAC 40 TIMOCHARIS.LAMBERT & LAC 41 APENNINES
- L 4 1 127 41-20N 14-29N 23 000 0000 06261D 5-20-67 LUNAR ORB HI GIOMM 868 NONE 2886K 4731148 114 2-2 22 -- 77

  CAN-HAD-- 42-80N 18-798 SRING= 278 PHASE= 74 EMIS-ANG-- 6. CAM-RAD-- 4625-2 KM SUN AZMOIO9-6

  EASIERN PART OF LAC 24 SINUS IRID : MESTERN PART OF LAC 25 CASSINI-AL 1 L1C 12 PLATG-ALPINE VAL. 6 LAC 40 TIMOCHARIS-LA
- L 4 2 127 41-21N 14-29W 23 000 0000 B-20-67 LUNAR ORB LO-F=80MM R&A NONE 2886K 36075000 1E4 2-2 22 --29

  CAM-NAD-= 42-8EN 18-79H SWINGS 278- PHASE= 74- EMIS-ANG-S 6- CAM-RAD-S 4A25-2 KM- SUN AZM=109-6

  LAC 24 SINUS INID : W>1/2 MOON SPHENE; LAC 76 RIPHAEUS M; LAC 1 N-POLE NEARSIDE BYRD-PFARY >80 N & LAC 146 N-POLE FARS:
- L 4 1 133 18+73N 29+698 24 \*\*\* \*\*\* 175540 5-20-67 LUNAR ORB H1+ 610MM B6# \*\* NONE Z673K 43819A7 340 3+3 19 -+46

  CAM+NAD+# 13+91N 27+86W SWING# 156\* PHASE# 68\* EMIS+ANG+# 8; C.M+RAD+# 4412+2 KH\* SUN AZM# 95+9

  #ESTERN PART OF LAC 40 TIMUCHARIS+LAMBERT ; LAC 39 ARISTARCHU ... LAC 58 COPERNICUS, REINHOLD
- E 4 1 134 40-31R 18-14W 24 444 444 444 4459 5-20-67 LUNAR ORB HI 610HM 86W NONE 2878K 4718033 53 347 21 --26

  CAM-NAD-# 42-8UN 25-30W SWING# 218+ PHASE# 74+ EMIS-ANG-# 10+ CAM-RAD-# 4417-2 KM+ 59N AZM#113-2

  EASTERN PART OF LAC 24 SINUS IRIDU ; LAC 25 CASSINI-ALP ; LAC 12 PLATO-ALPI ; LAC 40 TIMOCHARIS-LAMBERT & LAC 3 PHILOLAUS.
- L 4 2 134 46.31N 18.14W 24 000 6000 182759 3-20-67 LUNAR ORB LO.F. BOMM BLK NOME 2879K 35987500 53 3.7 21 -.39

  CAM.NAD. 42.80N 25.31M 581NG= 218. PHASE= 74. EHIS.ANG. 10. CAM.RAG. 4418.2 %N. 5UN A7M=113.2

  LAC 24 SINUS IHID : \$\infty\$1/2 HOUN SPHERE; LAC 75 LETRONNE.F; LAC 1 N.POLÉ NEARSIDE BYRD.PEARY >80 N & LAC 14 ENDYMION.STRA

- L 4 & 145 42-33N 33-7GN 26 04° 00° 1831J9 5"21"67 LUNAR ORB HI: 610MM RGN ... NONE 2868K 4701639 96 201 21 --70
  CAM-HAD-= 42-8IN 38-27# SWING= 260+ PHASE= 75+ EMIS-ANG-= 5+ CAM-PAD-= 4607-2 KM+ SUM AZM=109+1
  6ESTERN PART OF LAC 24 SINUS IRIDUM 3 LAC 23 RUMKER, SHA & LAC IT J-HERSCHEL, JURAS-BOUGUER

- HIS MAG FR.PHUTU PRIN.PT. ORB GET GMT H-DA-YR SION HOLE OR LAT. # CAMERA-LENS OR FILH-EXPOSURE TIMES-HR M SEC ALT: SCALE AT TILT SUN SIDE. SENSOR MAIN LUNG. AND FILTER TUDE PRIN. AZ ANG. ANG. FRO. ( I=ESTIMATED) TYPE Man.Ht Pt. FR. LAP L 4 2 145 42.34N 33.7GW 26 000 0000 183169 5-21-67 LUNAR ORB LO.F. 80MM R.G.W. K=KM. VERT
- CAM-NAD = 42.82N 38.27h SHING= 260. - NONE 2868K 35850000 96 2+1 21 -... PHABER 75. EMIS.ANG. S. LAC 24 SINUS INID : W>1/2 MOON SPHERE : LAC 74 GRIMALDIAB : LAC 5 PETERMANN, HAYN CAMerades 4607-2 KH- SUN AyHelofes 6 LAC 14 ENDYMION STRA
- L 4 I 151 40.880 40.20M 27 ... ... 063228 5-22-67 LUNAR ORB HI. 610MM R68 " NONE 2466K 46983A1 [18 2.4 2] -.76 Sainge 282. PHASE= 75. EHIS.ANG.= 6. EASTERN PART OF LAC 23 HUNKER SHARP CAM+RAD+# 4405+2 KH+ SUN AZM=108+3 I LAC 24 SINUS IRID & LAC II J. HERSCHEL .JURAS . HOUGUER
- L 4 t 152 64.78N 29.61W 27 ... ... 071044 5-22-67 LUNAR ORB HI. 610HM R&W CAH-MAD-= 12-22N 34-79W 5-1NG= 321. PHASE= 81. EM15-ANG.= 4. " NONE 3345K 5483697 142 145 13 -- 15 LAC 3 PHILOCAUS, BARRON CAM+RAD++ 5/84+2 KM+ SUN 42H=126+4 LAC 2 ANAXIMENES, PASCAL I LAC 11 J. MERSCHEL . JURAS . BOUGUERA LAC 1 N. POLE NEARS!
- E 4 1 158 41.49H 47.66# 28 \*\*\* \*\*\* 183333 5-22-67 LUNAR ORB HF, 610HM R6# CAM-NAD .= 42.85N 51.22# SWING= 271. PHASE= 75. EMIS-ANG.= 4. - NONE 2866K 4698361 106 1.7 20 -.78 EASTERN PART UF LAC 23 RUMKER, SHAR ; LAC 24 SINUS INTUU ; LAC 111 MILHELM, E ; LAC 38 SELETICUS, SCHROTER V. & LAC 39 ARISTARCH £ 4 2 174 13+37N 76+00H 31 +++ ++++ 060318 5-24+67 LUNAR ORB LD.F=80MH 86\*
- CAN-HAD. = 13.91N 73.95A SAING = 69. PHASE = 71. EMIS.ANG. = 3. " NONE 2673K 33412500 255 1.3 16 -.50 LAL 55 VASCUDEBAM : W>1/2 MOON SPHERE ; LAC 109 PIAZZI.V. ; LAC 21 N.GERARD.BOOLE CAM-RAD ... 4412-2 KM- SUN AZM- 93-D L 4 2 182 15.26N 81.42M 32 ... ... 180342 5-24-67 LUMAR ORB CO.F=BOMM R&M & LAC 24 SINUS IRIDUM
- CAN-HAD . # 13.884 80.57% SHING # 143. PHASE # 72. EMIS.ANG. # 3. \* NONE 2674K 33425000 329 1.0 16 +.66 LAC 55 VASCUUEGAH : WEIZ MOUN SPHERE : LAC 123 STEKLOV : LAC 21 N.GEHARD, BOOLE CAH+RAD+# 4413+2 KH+ SUN AZH# 93+7 & LAC 24 SINUS TREDUM
- E 4 & 188 13+39N 89+22W 33 \*\*\* \*\*\*\* D6U409 5-25-67 LUNAR ORB LO.F=80MM B6# CAH.NAD. = 13.92N 87.19m " NONE 2675K 33437500 255 1+3 15 -.78 S#146= 69. LAC 55 VASCUDEBAM : #>1/2 MOON SPHERE : LAC 123 STEKLOV : LAC 21 N. GERARD . BOOLE PHASE 72. EHIS-ANG. 3. CAH-RAD-m 4414-2 KM+ SUN AZM- 92+7 & LAC 24 SINUS IRIDUM
- € 5 2 102 40±214 1•34€ 49 ••• •••• 093823 8=14+67 LUNAR ORB LO.F#8DHM BGW CAM-HAD+# 51.30H 8.67E SWING# 178. " NONE 250K 3125000 240 34+1 12 PHASE 54. EMIS.ANG. 40. SOUTHERN PART OF LAC 12 PLATO, ALPINE VAL. CAM+RAD+# 1989+2 KM+ SUN AZH=101+8 T NURTHERN PART OF LAC 25 CASSINI, AL N. E. PART OF LAC 24 SINUS IRIDUM
- L 5 1 159 31.021 22.16W 65 ... ... 122817 8-16-67 LUNAR ORB HI. 610HH DEW CAM-NAD+= 31-02H 22-2Um \* NONE 155K 254098 11 2+3 17 -. ++ Swing= 276. PHASE# 73. EHIS.ANG.# 3. HORINERH PART OF LAC 40 TINOCHARIS LAMBERT CAM-RAD = 1894-2 KH-SUN AZHO 99.3 6 S. E. PART OF LAC 24 SINUS IRIDUM
- £ 5 2 159 31°03H 22°17H 65 ••• •••• 122017 8°16−67 EUNAR ORB EO.F=80HM B&W CAM-WAD-# 31.63N 22.23N Shing= 272. " NONE 155K 1937500 7 2+3 17 PHASE= 73. EHIS.ANG.= 3. HORTHERN PART OF EAC 40 TIMUCHARIS LAMBERT CAM+RAD++ 1894+2 KH+ & SOUTHERN FART OF LAC 74 SINUS IRIDUM SUN AZME 99.3
- t 5 1 160 32-25N 22-11# 65 \*\*\* \*\*\* 122824 8-16-67 LUNAR ORB HI, SIONH ROW CAH+NAD+= 32+L16 22+16# - NONE 156K 255738 10 2.7 17 -. 8 SAING= 275. PHASE# 73. EMIS.ANG.# 3. 5. L. PART OF LAC 24 STRUS INIDUM CAM+RAD+= 1895+2 KM+ SUN AZM= 99+5 6 NORTHERN PART OF LAC ON TIMOCHARIS. LAMBERT
- ( 5 € 160 32+26N 22+12n 35 ++\* ++\* 122824 8=16+67 LUHAR ORB LO,F=ADHM R6# CAN-HAD. # 32.02N 22.16W Saince 272. NONE 156K 1950000 7 2.7 17 -.87 PHASE 73. EMIS.ANG. 3. SOUTHERN PART OF LAC 24 STRUS TRIDUM CAM-RAD-# 1995+2 KH+ SUN AZM# 99+5 6 NORTHERN PART OF LAC 40 TIMOCHARIS. LANBERT

510	HAG FR®PHUTU N ROSE OH E M HALM M	aT. a			SENSOR	FILM-EXPOSURE AND FILTER	TUDE PRIN.	AZ ANG. ANG. FR.	F#D.
į 5		28 22+12#		PHASE= 73.		B&W = NONE 3+ CAM+RAD+≡			
į 5	CAM-HAD. = 32.4	2N 22+11W	••• •••• 122832 Swing= 272• Sinus Iridum	PHASE= 73.	EHIS.ANG.	R&W - NGNE 3. CAM«RAD»« ERN PART OF LAC 40	1897+2 KH+	SUN AZM# 99.6	
ι 5		411 22.074		PHASE= 73.		R&W = NONE Q• CAM•RAD•■			
įS	CAM-MAD. # 12.8	94 22.074	SWING# 271.	PHASE# 73.	EHIS . ANG . =	BGW - NONE 4. CAM-RAD-= ERN PART OF LAC 40	1899+2 KM+	SUN AZM# 99+8	-,86

FOTAL PHOTOS IN THIS GROUP = 25

HIS MAG FR. PHULU PRIN. PT. URB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SI SIDE. SION RULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AT ANG. ANG. FRD. MAIN LUNG. ( I = ESTIMATED) TYPE M=N.MI PT. FR. LAP K-KH. VERT 8 . 7 L 4 1 163 41.dln 11.28E 19 \*\*\* \*\*\* 061815 5-18-67 LUNAR ORB HI, 610HH 86# - NONE 2927k 4798341 107 1.7 22 -.77 CAN-NAD-# 42-76% 7-57E SHING= 272- PHASE= 72- EHIS-ANG-# 5: CAM-RAD-# 4666-2 KH- SUN A7H-110-7 HESTERN PART OF LAC 26 EUDONUS. BUR I LAC 25 CASSINI. ALP I LAC 13 ARISTOTE. . I LAC 41 APENNINES HAEHUS & LAC 42 H. SERENIT L 4 4 108 14-265 2-36# 20 \*\*\* \*\*\* 171651 5-18-67 LUNAR ORB LO.F=80MM B&W - NONE 2719k 339975nn 76 +5 21 ++12 CAM-HAD-= 14-455 3-17# SWING= 262. PHASE= 70. EMIS-ANG.= 1. CAM-RAD-= 4458-2 KM. SUN AZME 83-8 LAC // PTULMAEUS. : W>1/2 HOON SPHERE ; LAC 126 CLAVIUS, H ; LAC 25 CASSINI.ALPS HTS & LAC &L TARUNTIUS LYE L 4 I IIU 42-59N 3-35E 20 \*\*\* \*\*\* 182013 5-18-67 LUNAR ORB HI \* 610MM 86\* - NONE 2916K 4780328 94 1-1 21 -- 77 CAH.NAD.= 42.77N U.86E SWING= 259. PHASE= 72. EMIS.ANG.= 3. CAM.RAD.= 4655.2 KM. SUN AZMETO9.6 EASTERM PART OF LAC 25 CASSINIALP : LAC 26 EUDOXUS.BUR : LAC 12 PLATO.ALPI : LAC 13 ARISTOTE.M.FRIG & LAC 41 APENNINES L 4 2 1105 42.60M 3.35E 20 \*\*\* \*\*\* 182013 5-18-67 LUNAR ORB LO.F=80MM 866 - NONE 2916K 36450000 94 1.1 21 -.18 LAM-NAU-= 42-77N U-86E Saing= 259. PHASE= 72. EMIS-ANG.= 3. CAN+RAD+# 4655+2 KH+ SUN A2H=109+6 UEGRAULD NEGATIVE : LAC 25 CASSINIAL : WOLZ MOON SPHERE : LAC I N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 79 COLOMBO.NE.M.

- L 4 2 113 14.635 9.51W 21 0.0 0.00 551900 5519-67 LUNAR ORB LO.F=80MM B&W NONE 271BK 33975000 123 .2 20 -.00

  CAM-WAD-# 14.455 9.81W Shing= 309. Phase# 70. Emis.ang.# 1. CAM.RAD-# 4457.2 KM. SUN AZM# 83.9

  LAC 77 PIOLMALUS, ; W>1/2 MOUN SPHEME; LAC 137 NEWTON.MO; LAC 25 CASSINI,ALPS HTS & LAC 42 M.SERENITY.DA
- L 4 & 115 42-27N 2-67W 21 \*\*\* \*\*\* 662212 5=19-67 LUNAR ORB H1. 610MH 86M + NONE 2905K 4762295 [01 1-4 21 -678 CAM-HAD-# 42-76N 5-70M SWING# 267: PHASE# 73: EHIS-ANG:# 4: CAM-RAD-# 4644-2 KM: SUN AZHWID9-5 LAC 25 CASSINI-AL I 100 12 PLATU-ALPI I LAC 13 ARISTOTE:#, I LAC 40 TIMOCHARIS-LAMBERT 6 LAC 41 APENNINES-HAE
- L = 2 115 42-24H 2-67W 21 \*\*\* \*\*\* 062212 5=19-67 LUNAR ORB LO.F=80MM B6W = NONE 2905K 36312500 101 1-4 21 -.21

  CAM-HAD-= 42-76N 5-70W Swing= 266+ PHASE= 73+ EHIS-ANG= 4+ CAM-RAD+= 4644-2 KM+ 5UN AZM=109-5

  LAC 25 CASSINI-AL : W>1/2 MOON SPHERE; LAC 75 RIPHAEUS M : LAC 1 N.POLE NEARSIDE BYRD-PFARY >80 N & LAC 16

- NIS MAG FR.PHUIU PRIM.PI. URB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTE SCALE AT TILT SUN SIDE. SION HULL UP LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN AZ ANG ANG FAD # # HA1!! 1.0116 (I=ESTIMATED) TYPE MENAMI PT. FR. ш LAP K=KM. VERT 8 . 9
- E 4 1 127 91-20N 19-29W 23 \*\*\* \*\*\* 062610 5-20-67 LUNAR ORB HI & ALOHN B&W DONE 2886K 473|198 114 2-2 22 --,77

  CAM-HAD-= 92-80N 18-79W SWING= 278- PHASE= 74- EMIS-ANG-# 6- CAM-RAD-# 9625-2 KM- SUN A7M=109-6

  EASIERN PART UF LAC 24 SINUS INIC : WESTERN PART UF LAC 25 CASSINI,AL : LAC 12 PEATO-ALPINE VAL- & LAC 40 TIMOCHARIS-LA
- L 4 2 132 9-145 29-59# 24 \*\*\* \*\*\* \*\*\* 172507 5-20-67 LUNAR ORB LO-F=80HM R&W NONE 2717K 339625BD 1 3-4 19 --\*\*

  CAM-HAD-= 14-425 29-69# SWING= 188+ PHASE= 72\* EMIS-ANG+= 9\* CAM-RAD+= 4456-2 KM\* SUN AZM= 86-Z

  EAC 76 MIPHAEUS B ; W>1/2 MOON 5PHERE; EAC 125 SCHILLER, ; LAC 39 AMISTARCHUS & LAC 25 CASSINI-ALPS
- L 4 1 134 46.3IN 18.14H 24 600 6000 182759 5-20-67 LUNAR URB HI. 610NH B6W NONE 2878K 4718033 53 307 21 -026

  CAH-MAD-- 42.8UN 25.3UM SWING= 218. PHASE= 74. EMIS.ANG.= 10. CAM.RAD-- 4617.2 KM. SUN AZM#113.2

  EASIEKN PART UF LAC 24 STRUS TRIDU; LAC 25 CASSINI.ALP LAC 12 PLATO.ALPI LAC 40 TIMOCHARIS.LAMBERT & LAC 3 PHILOLAUS.

- L 5 L 1U2 98.22N 1.08E 99 ... 093823 8-14-67 LUNAR CP3 HI. 610NM R6W NONE 250K 409836 240 34.0 12 -... Cah.Nad.= 51.24N 8.67E 54ING= 178. PHASE= 54. EMIS.ANG.= 40. CAM.RAD.= 1989.2 KM. SUN AZM=101.8 5. E. Part of Lac 12 Plato.alpine val. 6 Northern Part of Lac 25 Cassini.alps hts

- L 5 2 IJU 49+33N 2+76# 56 ++\* +\*\* 075449 8=15=67 LUNAR URB LO:F#ROMM RG# NONE 236K 2950000 61 7+2 17 -\*\*87

  CAN+NAD+\* 48+86N 4+09% Swing# 324\* PHASE# 79\* EMIS+ANG,# 8\* CAM\*RAD\*# 1975\*2 KM\* SUN AZM#108+0

  SOUTHERN PART OF LAC IZ PLATO+ALPINE VAL\* 6 NURTHERN PART OF LAC 75 CASSINI,ALPS HTS
- L 5 2 131 49.98N 2.60N 56 000 075500 8-15-67 LUNAR ORB LU.F.#8UMM 86N NONE 739K 2987500 57 7.5 17 -:87 CAM-HAD-# 49.43N 3.98N SWING# 320. PHASE# 79. EMIS-ANG-# 9. CAM-PAD-# 1978-2 KN. SUN AZM#108.3 SOUTHERN PART OF LAC 12 PLATO-ALPINE VAL. 6 NORTHERN PART OF LAC 25 CASSINI-ALPS HTS

	MAG HULL #	FR.PHOTO PRI OR LAT. MAIN H	H.PT. URB H LONG.	GET GHT TIMES-HR M SEC (!=ESTIMATED)	H-DA-TH CAM	ERA-LENS ON FI SENSOR TYPE	ILH-E:POSURE AND FILTER	ALTI SCALE AT TE TUDE PRIN. AZ M=N.HI PT. K=KM.	L T SUN S ANG. ANG. FR. VERT	
լ 5	CANE	NAD. # DU. UUN	3.878	SWING= 317. PLATO.ALPINE VA	PHASE 79.	ORB LO.F.BOMM BG EHIS.ANG.= 9. & NORTHERN		243K 3837580 54 1982+2 KM+ SUN	7+9 17 AZH#108+7	-,87

TOTAL PHOTOS IN THIS GROUP . 22

MIS MAG FREPHULU PRIM.PT. URB FILM-FXPOSURF ALTE SCALE AT TILT SUN SIDE+ GE T GHT M-DA-YR CAMERA-LENS OR TIMES-HR M SEC AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SIUN KULL OR LAI. SENSOR TYPE M=NaMI PT. LAP MAIN L DNG. CIMESTIMATEDI FR. VERT K=KM. 8 8

- £ 4 } 79 41.03N 39.05E 15 \*\*\* \*\*\* 061131 5=16-67 LUNAR ORB HI. 610MM BGW = NONE 2964K 4859016 103 2.1 25 →.98 Cam.Had.= 42.79N 34.33E Swing= 268. Phase= 71. Emis.ang.= 6. Cam.Rad.= 4703.2 km. Sun azm=113.3 Lac 27 Geminus.at ; Lac 26 Eudox<sup>U</sup>s.bu ; Lac 13 Aristute., ; Lac 14 Endymion.strabu & Lac 42 M.Serenity.da

- L 4 2 96 15+175 10+66E 18 +++ ++++ 171241 5-17-67 LUNAR ORB LO+F#BOHM B6W NONE 2722K 34025000 138 +6 22 -++87 CAH+NAD+= 14+455 9+99E SWING= 324+ PHASE= 69+ EMIS+ANG+= 2+ CAH+RAD+= 4461+2 KM+ 5UM AZM= 83+2 EAC 78 THEOPHILUS 1 №>1/2 MOON SPHERE 1 LAC 41 APENNINES+ 1 LAC 26 EUDOXUS+BURG & LAC 126 CLAVIUS+MAG1
- C 4 1 98 40.97N 18.53E 18 \*\*\* \*\*\* 181625 5~17~67 LUNAR ORB HI. 610HM BOW NONE 293BK 4816393 LIB 2.2 23 -.76

  CAH.NAD.= 42.81N 14.21E SWING# 282. PHASE# 72. EMIS.ANG.# 6. CAM.RAD.# 4677.2 KM. SUN AZM#111.3

  LAC 26 LUDUXUD.BU ; CENTRAL PART OF LAC 13 ARISTOTE...; WESTERN PART OF LAC 42 M.SERENITY.NAWES & L/C 41 APENNINES.HAE

Section 1995 Annual Section 1995

MIS MAG FR,PHOID PRINAPT, ORB GET GMT M=DA=YR CAMERA=LENS OR FILM=EXPOSURE ALTI SCALE AT TILT SUN SIDE,
SIDN HULL ON LATA B TIMES=HR M SEC SENSOR AND FILTER TUDE PRINA AZ ANGA ANGA FNDA
B HAIN LUNGA (I=ESTIMATED) IYPE M=NAHI PTA FRA LAP
B K=KH. VERT 8, %

- L 4 2 114 13-47N 14-976 21 \*\*\* \*\*\* \*\*\* 054938 5-19-67 LUNAR ORB LD-F=80MM B6# NONE 2687K 335875ND 261 1-8 19 --64

  CAM-MAD-= 13-89N 8-09N SWING= 77. PHASE= 66. EMIS-ANG.\* 5. CAM-MAD-= 4426-2 KM- SUN A7M= 94-2

  LAC 58 COPERNICUS.KEINHOLD : W>1/2 MOUN SPHERE : LAC 111 WILHELM.E : LAC 12 PLATO.ALP : LAC 26 FUDOX 6 LAC 96 ALTAI
- L 4 I 115 42-27H 2-67W 21 \*\*\* \*-0\*\* D62212 5-19-67 LUNAR ORB HI. 610HM R6W NONE 2905K 4762295 IDI 1-4 21 --78

  CAM-NAD-= 42-76H 5-7UA SWING= 267- PHASE= 73- EMIS-ANG-= 4- CAM-RAD-= 4644-2 KM+ SUN AZH-109-5

  LAC 25 CASSINI-AL : LAC 12 PLATO-ALPI ; LAC 13 ARISTOTE-, : LAC 40 TIMOCHARIS-LAMBERT 6 LAC 41 APENNINES-HAE
- L 4 2 125 14-895 22-97# 23 \*\*\* \*\*\* 652314 5-20-67 LUNAR ORB LO.FEBOMM ROW NONE 2717K 33962500 170 +3 19 --90

  CAM-NAD-# 14-405 23-06W SWINGE 356- PHASE 71. EMIS-ANG-# 1. CAM-RAD-# 4456-2 KM- SUN A7M# 84-2

  LAC /6 RIPHAEUS M ; W>1/2 MOUN SPHENE ; LAC 128 BIELA,WAT ; LAC 23 RUMKER,SHARP & LAC 26 EUDOXUS-BURG
- L 4 2 126 12.87N 23.05W 23 \*\*\* \*\*\* 055348 5-20-67 LUNAR ORB LO.F. BOMM B&W -- NONE 2477K 33462500 238 1.3 20 -.\*\*

  CAN.NAD.= 13.94N 21.27W SWING= 53. PHASE= 68. EMIS.ANG.= 3. CAM.RAD.= 4416.2 KM. SUN AZM= 94.0

  LAC 58 CUPERNICUS.REINHOLD I @>1/2 MOON SPHERE I LAC 11 WILHELM.ELGER.MEE & LAC 10 BARBAGE.N.PH
- L 4 2 138 13-71N 36-45N 25 \*\*\* \*\*\*\* 055724 5-21-67 LUNAR ORB LO.F=80MM H&W NONE 2671K 3338750D 263 1-3 18 --61

  CAM-NAD-\* 13-72N 34-43W SWING\* 78. PHASE\* 68. EMIS-ANG-\* 3. CAM-RAD-\* 4410-2 KM- SUN AZM\* 94-0

  LAC 57 KEPLEK-ENC I W>1/2 HOUN SPHERE I LAC 110 SCHICKARD : LAC 11 J-HERSCHEL-JURAS-ROUGUER & LAC 26 EUDOXUS-BURG
- L 4 2 144 14+04N 41+77W 26 \*\*\* \*\*\* 175854 5-21-67 LUNAR ORB LO-F=80HM B&W NONE 2669K 33367500 280 -5 19 -.78

  CAN-HAD- 13-76N 41+01N SWING 94+ PHASE 70+ EMIS-ANG- 1+ CAM-RAD- 4408-2 KM+ SUN AZM- 94+3

  LAC 57 KEPLEK-ENC 1 6->1/2 MOON SPHERE 1 LAC 92 BYRGIUS-DA 1 LAC 10 BABBAGE-N-PROCELARM+ & LAC 26 EUDOXUS-BURG
- ₹ 4 2 152 69+7dN 29+61W 27 ••• •••• 071044 5=22=67 LUNAR ORB £0+F=80MM B6W = NONE 3345K 41812500 142 1+5 13 -+90 CAM+HAD+= 72+23U 34+79N 5½ING= 321+ PHA5E= 81+ EMIS+ANG+= 4+ CAM+RAD+= 5084+2 KM+ 5UN AZM=126+4 LAC 3 PHILUEAUS+B 1 ₩>1/2 HOON SPHEHE 1 LAC 39 ARISTARCHU ; LAC 6 & LAC 15 M-HUMBOLTIANU
- ₹ 4 2 1925 38-22N 53-84€ 33 \*\*\* \*\*\* 6947U9 5-25-67 LUNAR ORB ₹0-F#80HN B6W NONE 5504K 68799999 288 7.7 16 -.90

  CAM-NAU-\* 33-93H 86-05€ SWING\* 282. PHASE\* 107. ₹HIS-ANG\*\* 34. CAM-RAD\*\* 7243-2 KM- SUN AZM\*257-7

  UŁGKADEU NŁGAIIVŁ I LAC 27 GEMINUS-AT : ₩>1/2 HOON SPHERE : ŁAĆ 80 ŁANGRENUS-M-FERT. & ŁAĆ 26 EUDOXUS-BURG

мĮS	MAG FR.PHOTO PRI	N.PT. URB	GET GMT	M-DA-YH CAM	RA-LENS OR F	ILM-EXPOSURE	ALTE SCALE AT	TILT SUN 5	IDE.
\$10N	RULL UR LAI. B MAIN B	FANC"	TIMES-HH H SEC (*=ESTIMATED)		SENSOR Type	AND FILTER	MwN.HI PT.	AZ ANG. ANG. FR. VERT	LAP
	I 86 38=u2N I. CAM+HAD+= 37.7gN	13.43 <u>E</u>		PHASE= 71.					-,••
ι 5	2 86 38+63N 1. CAH+NAD+= 37+76N	13•43E		PHASE= 71.					-,••
ι \$	1 87 38.51N 1. CAM-MAD.= 38.14N	13.49E		PHASE 71.					
	2 87 38.52N E. CAM.HAD.= 38.15N	13.49E		PHASE= 71.					
ι 5	1 88 37.01N 1 Cam.Nad. 38.59N	13+55E	•* •••• 204959 Swing= 269• uf lac 26 eud	PHASE# 71.	DRO HI. 610MM to EMIS-ANG.= 4.	CAM+PAD+#	182K 298361 1921+2 KH+	4 4.0 19 SUN AZM#103.7	-, 7
1. b	2 88 37-02N 1. Catt-Hade= 38-59N WE:	13.55E	• • • • • 204959 Swing= 267. UF Lac ≥5 EUO	PHASE# 71.	ORB LO.F=80MM B EHIS-ANG.= 4.	GW - NONE CAM•RAD•*	182K 2275000 1921+2 KM+	2 4.1 19 SUN AZM#103.7	-,87
	1 89 39.51N 1 Cah-nad = 39.04N ne	13.60E		PHASE 71.					
و ج	2 89 39-52N 1. CAM-HAD-= 39-04H WE	316.61	** **** 205008	PHASE = 71.	URB LO.F=BOMM B EMIS.ANG.= 5.	&W = NONE CAM∗RAS∗=	184K 2300000 1923+2 KH+	3 4.5 18 SIIN AZM=103.9	-,87

TOTAL PHOTOS IN THIS GROUP = 29

. 3

ALTI SCALE AT IILT SUN SIDE. FILH-EXPOSURF MIS MAG FR.PHUID PRIN.PT. DRB GET GHT HY-AG-M CAMERA-LENS OR UH LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FND. SION RULL LONG. MAIN ( =ESIMATED) TYPE MEN.HI PT. FR. LAP K#KM. VERT 8 . 9

- L 4 1 74 40-70N 45-57E 14 \*\*\* \*\*\* 181008 5-15-67 10NAR ORB HI 610MM R6# \*\*\* NONE 2970K 4868652 119 2-3 25 --68

  CAN-HAD-\* 42-75N 41-06E SWING\* 283. PHASE\* 71. EMIS-ANG.\*\* 6. CAM-RAD-\*\* 4709-2 KM. SUN AZM\*113-2

  CENTRAL PART OF LAC 27 GEMINUS\_ATEAS : NORTHERN PART OF LAC 43 MACROBIUS. 6 CENTRAL PART OF LAC 14 FNOYMION-5TR
- L 4 2 74% 40+700 45+57E 14 44° 04° 181008 5±15−67 LUNAR ORB LO+F±80MM B6W NONE 2970K 37125000 119 2+3 25 -+4° CAM+NAD+= 42+75N 41+06E SWING= 283+ PHASE= 71+ EMIS+ANG+= 6+ CAM+RAD+= 4709+2 KM+ SUN AZM=113+2
  DEGMADEU NEGATIVE : LAC 27 GEMINUS+AT : B>1/2 HOON SPHERE : LAC 146 N+POLE FARSIDEINANSEN\_#3→80N & 1AC 114 RHE1TA+JANSS
- L 4 1 79 41-83N 39-85E 15 \*\*\* \*\*\* \*\*\* 061131 5-16-67 LUNAR ORB H1: 610HH B6W \*\* NONE 2964K 4859016 103 2-1 25 --90 CAN-NAD-= 42-79N 34-33E 5WING= 26B. PHASEM 71: EMIS-ANG-= 6: CAN-RAD-= 4703-2 KM: SUN AZM=113-3 LAC 27 GEMINUS-AT I LAC 26 EUDOAUS-BU I LAC 13 ARISTUTE:: I LAC 14 ENDYHION.STRABO & LAC 42 M-SERENITY-OA
- L 4 2 79° 41° H34 39° DSE 15 °°° °°° 06° 06131 5°16° 67 LUNAR URB LØ F=80MM B6W NONE 2964K 37050000 103 2°1 25 °°, 90 CAM-NAD = 42°79H 34°33E 5AING=268° PHASE® 71° EMIS•ANG = 6° CAM-RAD = 4703°2 KN° SUN A7M=113°3 LAC 27 GEMINUS•AILAS : \$\omega> 12° DSHERE : LAC : N.POLE NEARSIDE BY : LAC 13 ARISTOTE M°FRIG \$\omega\$ LAC 78 THEOPHILUS

CAM-HAD-# 33-93N 86-85E SWINGW 282. PHASE# 187. EHIS-ANG.# 34. CAM-RAD.# 7243-2 KM. SUN AZM#257-7
UEGHADED NEGATIVE : LAC 27 GEMINUS.AT : \$\text{G} > 1/2 MOON SPHERE : LAC 88 LANGRENUS.M.FERT. & LAC 76 EUDOXUS.AUNG

TOTAL PHOTOS IN THIS GROUP . 16

MIS			PRIM.PT. URB		CAMERA-LENS OR	FILM-EXPOSURE	ALTI SCALE AT	TILT SUN	SIDE,
SION	KOLL	Ųď	LAT. #	TIMES-HR M SEC	SENSOR	AND FILTER	TUDE PRIN.	AZ ANG ANG	FAD.
4	K	HALM	FONG.	(=EST;MATED)	TYPE		MmN+H1 PT.	FR.	LAP
		р					K=KH.	VERT	8 . 8

- L 4 2 | 116 | 70-83N 4-49E 21 \*\*\* \*\*\* 078041 5-19-67 LUNAR ORB LO.F.BBORM B&W NONE 3397K 42462500 148 \*\* 6 12 \*\*\*\* CAM-NAD-# 71-88N 2-48E 5% · 326\* PHASE# BO. EHIS+ANG-# 2\* CAM-RAD-# 5136\*2 KM\* 5UN AZM#124\*1 LAC 3 PHILULAUS-B : LAC 7 KARPINSK LAC 41 APENNINES, I LAC 1 N.POLE NEARSIDE BYRD-PEARY >8D N & LAC 17
- L 4 J 41°41°26N BO:11E 9 \*\*\* \*\*\* 160535 5-13-67 LUNAR ORB HI 610HM B6W NONE 2984K 4891803 109 2°5 28 -,90 CAM-NAD-= 42°85N 74°64E SWING= 273° PHASE= 69° EMIS-ANG-= 7° CAM-RAD-= 4723°2 KM° SUN AZH=116°7 DEGRADED HEGATIVE : LAC 28 GAUSS-MESSALA-ZEN ; LAC 29 BRUNO FABRY 6 EASTERN PART OF LAC 15 M-HUMBOLTIANUM
- L 4 2 41% 41.26N HB-11E 9 \*\*° \*\*\* 060535 5=13=67 LUNAR ORB LO.F=80MM B6W NONE 2984K 37300000 109 2.5 28 -.90 Cam-Nad-= 42.85N 74.64E Swing= 272. Phase= 69. Emis-ang.= 7. Cam-rad.= 4723.2 km. Sun azm=116.7 Deuhaded negative & Lac 28 Gauss.mfssala.Zend
- L 4 I 48° 41°21N 71°77E 10 °°° °°°° 180618 5°13°67 LUNAR ORB HI 610MM B6# ° NONE 2983K 4890164 118 1°9 26 °°°° Camenade 42°84N 67°95E Swing= 282° Phase= 69° Emis.ang== 5° Camerade 4722°2 km° Sun a2m=114°8 Lac 28 gauss:Mess: Lac 15 m.Humbolti : Lac 44 cleomedes.: Lac 45 plutarch.hahn & Lac 29 brund fabry
- . 4 2 48\$ 41+21N 71+77E 10 \*\*\* \*\*\* 180618 5-13-67 LUNAR URB LO:F=BOHH B&W \* ADNE 2983K 37287500 118 1+9 26 \*\*\*

  CAM+NAD+= 42+84N 67+95E SWING= 282+ PHASE= 69+ EMIS+ANG+= 5+ CAM+RAD+= 4722+2 KM+ SUN AZM=114+8

  DEGNADED NEGATIVE & LAC 28 GAUSS+MESSALA-ZENO
- L 4 2 55\$ 42•u8H 65•57E 11 \*\*\* \*\*\* 060707 5=14=67 LUNAR ORB LO.F=80HH 86# HONE 2982K 3727500D 101 1•9 26 --,90 LAM•HAD•= 42•84N 61•25E SAING= 266• PHASE= 69• EHIS•ANG•= 5• CAM•RAD•= 472[•2 kB• SUN AZH=15•] DEGRADED NEGATIVE & LAC 28 GAUSS.MESSALA,ZENO
- L 4 | 62 42-37% 59-16E 12 \*\*\* \*\*\* 180759 S=14-67 LUNAR ORB HI\* 610MM B6# \*\* NONE 2979K 48836N7 95 Z\*O 25 \*\*\*\* Cam\*nad\*\* 42\*81% 54\*52E Swing\* 260\* Phase\* 70\* Emis\*ang\*\* 5\* Cam\*rad\*\* 4710\*2 km\* sun azm\*15\*0 Lac 24 gauss\*Mess ; lac 27 geminus,at ; lac 14 endymion\*s ; lac 15 m\*Humboltianum & lac 44 cleomedes,h\*c

	HAG HULL #		U PRIN.PT. URB LAI. H LUNG.	GET GMT TIMES-HR M SEC (FRESTIMATED)	H-DA-YR	CAMERA-LENS OR Sensur Type	FILH-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M=N.HI PT.		
į 4	1	67 41.	BUN 51+64E 13	*** *** 060961	5-15-67	I UNAR JRD DI. AIRDA		K#KH•	VERT	8. #

L 4 I 67 41-80N 51-64E 13 \*\*\* \*\*\* 969901 5-15-67 LUNAR ORB HI 610HH B&W - NONE 2976K 4878689 108 1-8 25 --90 CAM-NAD-# 42-81N 47-79E SWINGM 2720 PHASE= 70 EMIS-ANG-# 50 CAM-RAD-# 4715-2 KM- SUN A7M-113-6 EASIENN PART OF LAC 27 GEMINUS-ATL : LAC 28 GAUSS-MESSA I LAC 14 ENDYMION-S : LAC 43 MACROBIUS-PROCLUS - 6 LAC 44 ELEOMFDES

- L 4 | 165 38+84N B1=13E 29 00° 00° 00° 00° 074351 5=23=67 LUNAR URB HI» 610MM B6% = NONE 5487K 8995082 290 7.6 14 -00° CANONDONE 33.96N 112-73E 5WINGE 282. PHASE# 109. EHIS-ANG.# 33. CAM-RAD.# 7226-2 KM. SUN AZM#259-4 LAC 28 GAUDD-0H255 : WI/4 HOUNS SPHERE : LAC 14 ENDYMIUN.S : LAC 15 M-HUMBOLTIANUM 6 LAC 63 NEPFR.SCHUBER
- L 4 1 177 38.81N 67.86E 31 0.0 0.094528 5-24-67 LUNAR URB HI. 618MM 868 NONE 5492K 9883279 298 7.6 15 -... LAM.HAD.= 33.96N 99.33E SWINGE 282. PHASE# 188. EMIS.ANG.# 33. CAM.RAD.# 7231.2 KM. SUN AZM#258.7 LAC 28 GAUSS.MESS : WI/4 HUUNS SPHERE : LAC 3 PHILOLAUS.8 ; LAC 4 METON.DESITTER & LAC 44 CLEOMEDES.M.C

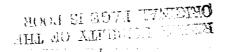
ALT: SCALE AT TILT SUN SIDE. CAMERA-LENS OR FILM-EXPOSURE HIS HAG FR.PHUIU PRIN.PT. URB GET GHT M-DA-YR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. SION HULL OR LAT. # TIMES-HR M SEC SENSOR LAP FR. TYPE M=N.HI PT. ( = ESTIMATED) MAIN LONG. K=KH. VERT 8 · K

- L 4 2 305 43+98N 85+39E 7 ++\* ++\* 063195 5=12=67 LUNAR ORB LO+F#8DMM 86% -- NONE 3309K 4136250D 196 9+7 22 --\*\*90 Lam-Nad-# 63+17N 93+00E Swing= 11+ Phase= 77+ Emis-Ang+# 29+ Cam-Rad+# 5048+2 km+ Sun Azm=112+3 Degkaded negative 6 Lac 29 Bruno Fabry
- 4 1 415 41+26N BU+11E 9 \*\*\* \*\*\* 06U535 5-13-67 LUNAR ORB HI: 610MM B&W NONE 2984K 4891803 109 2+5 28 -:90

  CAM+HAD+\* 42+85N 74+64E SWING\* 273+ PHASE\* 69+ EMIS+ANG\*\* 7+ CAM+RAD+\* 4723+2 KM+ SUN AZM#116+7

  DEGNADED HEGATIVE ; LAC 28 GAUSS;MESSALA+ZEN ; LAC 29 BRUND FABRY 6 EASTERN PART OF LAC 15 M+HUMBOL\*IANUM
- L 4 I 484 41-21N 71-77E 10 000 0000 180618 5-13-67 LUNAR ORB H<sup>I</sup> 610MM B&# NONE 2983K 4890164 118 109 26 -000 Lamonado= 42-84N 67-95E Swing= 2820 Phase= 690 Emisoang== 50 Camorado== 472202 km0 Sin A7M=114+8 Lac 28 Gaussomess | Lac 15 Mohumbolti | Lac 44 Cleumedes, | Lac 45 Plutarchomahn & 1.8C 29 Brung Fabry
- L 5 1 181 41-85N 1L9-39E 74 00° 4000 175642 8-17-67 LUNAR ORB HI- 610HM B6#

  CAR-HAD-= 41-61N 134-27E SWING= 90. PHASE= 121- EMIS-ANG-= 42
  AESIERH PART OF LAC 3U E-SZILARD WELLS I S. W. PART OF LAC 16
- NONE 1181K 1936065 279 23+4 II -+++
  CAM+RAD+# 2920+2 KM+ SUN AZM#261+6
  5 N+ E+ PART OF LAC 29 BRUNG FABRY
- NONE 1181K 147625NO 277 23+4 11 --\*\* CAM+RAD+# 292D+2 KM+ SUN AZM#261+6 & LAC 29 BRUNG FARRY



H15	MAG	FRIPHOTO	PRIN.PT. URB	GET GMT M-DA-YH	CAMERA-LENS OR	FILM-EXPOSURE	ALTE SCALE AT	TILI SUN SIDE.
SIUN	HULL	ОH	LAT. H	TIMES-HR M SEC	SENSOR	AND FILTER	TUDE PRIN.	AZ ANG. ANG. FWD.
#	#	MAIN	LUNG.	Li=ESTINATED)	TYPE		N=N•M1 PT.	FR. LAP
		N					K ™KH+	VERT 8. S

TOTAL PHOTOS IN THIS GROUP # 9

- HIS MAG FR. PHOTO PRIN. PT. DRA GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. SIUN RULL OR LAT. # TIMES-HH M SEC SENSUR AND FILTER TUDE PRING AZ ANG. ANG. FRD. LUNG. HAIN (F#ESTIMATED) TYPE MENAMI PT. FR. LAP K=KH. VEHT 8. 8
- L 4 2 128 69.92N 9.43W 23 \*\*\* \*\*\* 070417 5\*20-67 LUNAR URB LO.FEBOMM BGW NONE 3369K 421125ND 171 1.0 12 -.\*\* LAM.HAD.= 71.90H 10.32W SWING= 347. PHASE= BO. EMIS.ANG.= 3. CAM.RAD.= 5108.2 KM. SUN AZME122.3 LAC 3 PHILULAUS.BAHKUM ; W>1/2 NUON SPHERE : LAC 58 COPERNICUS.RFINHOLD & LAC 17
- L 4 1 146° 2.77N 136.09E 26 °°° °°°° 23J025 5-21-67 LUNAR ORB HI, 610HM R6W NONE 6148K 1807A6A8 25 °8 °° -,°°

  LAM.HAD.= .16N 134.86E SWING= 45. PHASE= 109. EMIS.ANG.= 4. CAM.RAD.= 7887.2 KM. SUN AZM=271.7

  LAC 66 MENDELLEEV I W174 HOONS SPHERE : LAC 30 E.SZILARD : LAC 47 OLCOTT 6 TERMINATOR
- L 5 | 158 37-83N 126-77E 64 \*\*\* \*\*\* 101006 8=16=67 LUNAR ORB HI 610MH 86# NONE 1233K 2021311 27B 24-2 11 --\*\*

  LAM-HAU-# 37-69N 152-57E SWING# 89\* PHASE\* 124\* E315-ANG\*# 44\* CAM-RAD\*# 2972-2 KM\* SUN AZM#263-2

  EASIEMN PART OF LAC 30 E.SZILARD WELLS I NO!.THERN PART OF LAC 47 DECOTT 6 N. W. PART OF LAC 48 W.M.MOSCOVIF
- L 5 I 103 38.04N 121.22E 67 \*\*\* \*\*\* 194258 8=16-67 EUNAR ORB HI. 610M 866 NONE 1731K 2018033 279 24.4 12 -.\*\*

  LAM.NAD.= 37.62N 147.19E SWING# 89. PHASE= 123. ENIS.ANG.# 45. CAM.RAD.# 7970.2 KM. SIN A7H#262.7

  CENINAL PART OF LAC 30 E+541LAND WELLS 6 NORTHERN PART OF LAC 47 OLCOTT
- L 5 | 181 41-85N 169-39F 74 \*\*\* \*\*\* 175642 8-17-67 LUNAR ORB H1.610MH B6# NONE 181K 1934066 279 23-4 11 ---\* Cam-had-= 41-61N 134-27E 5WING= 90- PHASE= 121. EMIS-ANG.= 42. CAM-RAD.= 7920-2 KH. SUN AZH=261.6 HESIERN PART OF LAC 30 E-SZILARD WELLS I S. W. PART OF LAC 16 F. N. E. PART OF LAC 29 ARONO FARRY
- L 5 4 181 41-96N 169-416 74 \*\*\* \*\*\* 175642 8-17-67 EUNAR ORB EO-FORDMM ROM NONE 1181% 14762500 279 23-4 11 -.\*\*

  CAN-HAD-- 41-61H 134-27E SWING- 90- PHASE 121- EM15-ANG-- 42- CAM-RAD-- 2920-2 KM- SUN AZM-261-6

  LAC 3U 6-541CARD : W1/4 HOURS SPHERE : LAC 47 OCCUTT : LAC 16 6 LAC 29 BRUNG FARRY

3υ

LAC 30 E-SZILARD NELLS

PAGE 66

MIS HAG FR.PHUTU PRIN.PT. URB GET GMT CAMERA-LENS ON FILH-EXPOSURE ALTE SCALE AT TELT SUN SIDE. SION RULL OR LAT. # TIMES-HH M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. HAIN LUNG. ( = ESTIMATED) TYPE M=N+H1 PT. FR. LAP KaKH. VERT

TOTAL PHOTOS IN THIS GROUP = 9

ALTI SCALE AT TILT SUN SIDE. GMT M-DA-YR FILM ... FXPOSURE HIS HAG FR. PHUID PHIM. PT. URB GE 1 CAMERA-LENS OR AND FILTER TUDE PRING AZ ANG. ANG. FAD. TIMES-HR M SEC SENSOR SION ROLL OR LAT. TYPE M=N.M1 PT. FR. LAP MAIN LUNG. (I=ESTIMATED) VERT K=KH+ 8. R

- L 5 | 85 36+73N 158+84E 44 \*\*\* \*\*\* 182940 8=13=67 LUNAN ORB HI. 610MM 86W = NONE 1739K 2031148 281 75+8 11 =+\*

  CAM-HAD-= 37+81N 172+42W SWING= 89+ PHASE= \$27+ EMIS+ANG== 48+ CAM-HAD+= 2978+2 KM+ 5UN AZM=262+9

  WESTERN PART OF LAC 32 HUTTON I EASTELN PART OF LAC 33 WIENER & NORTHERN PART OF LAC 49 E+M+MOSCOVIE
- L 5 2 1J3 38+84N 150+83E 49 ++\* ++\*+ 10245L 8→14→67 LUNAR ORB LU:F=89MM R6W NONE 1237K 15462599 281 25+4 11 -+\*\*

  CAM-HAD-# 37+85N 178+75E SHING= 9D+ PHASE= 126. EMIS-ANG.= 47+ CAM-RAD+= 2976+2 KM+ SUN AZM=262+9

  LAC 3E HIENER : WI/4 HUDNS SPHERE : LAC 32 HUTTON : LAC EM TIKHUV & LAC 49 ++++MOSCOVIEN
- L 5 1 124 38+97N 142+78E 54 \*\*\* \*\*\* 000 D22004 8=15=67 LUNAR ORO H1 610HM 86% # NONE 1237K 20278A9 2R1 75+D II =+\*\*
  CAH+HAD+= 37+83N 17U+09E SMING= 91. PHASE\* 125. EMIS+ANG== 46. CAM+RAD+= 2976+2 KM+ SUN AZM=262+9
  CEHIHAL PART OF LAC 31 WIEHER
  6 NORTHERN PART OF LAC 48 WHH-MOSCOVIENSE
- ES 2 124 39.09% 142.80E 54 0.0 0.00 022004 8-15-67 LUNAR ORB LO.F=80MM 86W NONE 1937K 15462500 281 75.0 11 -.00

  CAM.NAD.= 37.82% 174.09E SAINGE 91. PHASE= 125. EMIS.ANG.= 46. CAM.RAD.= 2976.2 KM. SUN AZM=262.9

  LAC 31 01EMER : W1/4 HOONS SPHERE: LAC 18 TIKHOV : LAC 32 HUTTON 6 LAC 49 E.M.MOSCOVIEN
- L 5 4 158 37.94N 126.79F 64 \*\*\* \*\*\* \*\*\* 101006 8\*16\*67 LUNAR ORB LO.FEBAMM B&W \*\* NONE 1733K 15412500 278 24.2 11 \*\*\*\* CAM.NAD.\*\* 37.69N 152.57E 561NG\*\* 90. PHASE\*\* 124, EMIS.ANG.\*\* 44. CAM.RAD.\*\* 2972.2 KM. SUN AJM\*263,2 LAC JU E.SZILAMU : @174 MUUNS SPHERE : LAC 31 WIENER : LAC 17 & LAC 48 W.M.MOSCOVIEN

THESE TWO SYMBOLS NEAT TO MAIN OR PHOTO NUMBER HEAN: • # DEGRADED PHOTOS, \$ ALMOST UNUSABLE PHOTOS, FILT ANGLES: AZIMUTH OF DIRECTION OF TILITAZ) & VERTICAL TO CAMERA AXIS

1-1,(+),(-),(-), OR(0) = NO INFO | W = APPROXIMATELY | NEXT TO HAGH, B=BRACKET | MOUNTED: G= CAM. ON GROUND CAUCKA-LENG AS FOLLOWS: SW.A. # SUPER WIDE ANGLE LENS: EKIR#EKTAR 2.8 LENS:

HSU= HASSELBLAD: NAUH# MAUREN: ZP.ZB.ZS = ZEISS LENSTPLANAR,BIOGEN.SONART: FOCAL LENGTH(MM) & MAX.F=OPENING 10 # A EAPOS SPEED # 1/1000 10H \* TWO ZEROS;
FOR LUNAR ORBITER & AFILM ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG. AT PP 15 ALT NOT O.D

MIS MAG FR. PHUID PRIN. PT. URB GET GHT H=DA=YR CAMERA-LENS OR FILM\_EXPOSURE ALTE SCALE AT TILT SUN SIDE. SION HULL OR LATA TIMES-HR M SEC SENSOR AND FILTER TUD: PRING AZ ANG. ANG. FWD. m BAIN ( FEESTIMATED) TYPE LUNG. MEN.MT PT. FR. LAP K=KM. VERT 8. 8

E 5 2 53 48+97N 176+13H 29 \*\*\* \*\*\* 184006 8\*11=67 LUNAR ORB LO.F=BOMM BGW - NONE 1191K 14887580 297 25+6 9 --\*\*

CAM-NAD-# 42-56N 147-40W SWINGE 107\* PHASE= 126\* EMIS-ANG.# 47\* CAM-RAD-# 7930+2 KH. SUN AZM#Z61+6

LAC 18 TIKHUV I W1/4 MOONS SPHERE; LAC 50 MORSE 1 LAC 51 JACKSON 6 LAC 32 HUTTON

L 5 2 85 38+85N 158-87E 44 \*\*\* \*\*\* 182940 8=13-67 LUNAR ORB LO.F=80MM R&W

CAM-HAD.= 37.86N 172-42W SWING= 90. PHASE= 127. EMIS-ANG.= 48.

EAC 32 MUTION : WI/4 MUONS SPHERE : LAC 18 TIKHOV : LAC 50 MORSE

CAM-RAD. = 2978+2 KM+ SUN AZM=262+9
6 LAC 17

NONE 1237K 15462500 281 25+4 11 ----

- NONE 1239K 15487500 281 25+8 11 ---

L 5 2 IJ3 38.84N 150.83E 49 \*\*\* \*\*\* 102451 8=14-67 LUNAR ORB LO.F#80MM B&W

LAN.NAD.# 37.85N 178.75E 5WING# 90. PHASE# 126. EMIS.ANG.# 47.

LAC 31 71ENER 1 W174 MOONS SPHERE 1 LAC 32 HUTTON : LAC 18 TIKHOV

- NONE 1237K 15462500 281 25+4 11 --\*\*

CAM+RAD+# 2976+2 KM+ SUN AZM#262+9

6 1AC 49 E+M+05COVIEN

L 5 2 124 39+U9N 142+BDE S4 \*\*\* \*\*\* 022004 8=15=67 LUNAR ORB LO.F=BONN HUW CAM-NAD+= 37+B2N 170+D9E SWING# 91+ PHASE# 125+ EMIS-ANG## 46+ LAC 31 MIENER I WITH MOONS SPHERE: LAC 18 TIKHOV : LAC 32 HUTTON

- NONE 1237K 15462500 281 25+0 11 -++++
CAM+RAD+= 2976+2 KM+ SUN AZH=262+9
6 LAC 49 E+N+MOSCOVIEN

TOTAL PROTUS IN THIS GROUP = 1

Sec 25. Land alliance was

£,

THESE IND SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: ### DEGRADED PHOTOS, S### ALMOST UNUSABLE PHOTOS,

FILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(\*).(\*).(\*).(\*). UN(0) ## NO INFO | ### APPHOX; WATELY NEXT TO MAGH, B#BRACKET HOUNTED; G## CAH. ON GROUND
CAMERA-LEHS AS FOLLOWS: SW.A. ## SUPER WIDE ANGLE LENS: EKTR#EKTAR 2.8 LENS:

HSB### HASSELBLAD: MAUN## MAUREN: ZP.ZB.ZS LENS(PLANAR.BIOGEN.SONAR); FOCAL LENGTH(HM) & MAX.F=OPENING
FOR LUNAH ORBITER K AFIER ALTITUDE EQUALS KILOMETINS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT HOT O.O.

MIS MAG FR.PHOTO PRIN.PT. URB GŁĪ GHT H-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. UK LAT. TIMES-HH H SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FWD. HAIN LUNG. ( = ESTIMATED) TYPE M=W.HI PT. FR. LAP KnKM. VERT 8. 8

- L 5 1 J9 J8-7IN 159-96H 19 000 0000 105251 8-10-67 LUNAR ORB HI 610MM BEW NONE 1252K 2052459 2B3 26-8 10 -.0

  CAM-HAU-# 37-14N 128-86W SWING= 890 PHASE# 1310 EMIS-ANG.# 510 CAM-RAD-# 299102 KM0 SUN AZM=20306

  EASTERN PART OF LAC 34 SCHNELLER I PESTERN PART OF LAC 14 FOOLER & NORTHERN PART OF LAC 51 JACKSON
- L 5 1 53 46-85N 176-10\* 29 \*\*\* \*\*\* 184086 8\*11\*67 LUNES ORB HI. STOMM BEW MONE 1190K 1950870 297 25\*6 9 -,\*

  CAM-NAD-\* 42-56N 146-99W SWING\* 107. PHASE\* 126. EMIS-ANG.\* 47. CAM-RAD.\* 2925-2 KM. SWING\* 107. PHASE\* 126. EMIS-ANG.\* 47. CAM-RAD.\* 2925-2 KM. SWING\* 2018 AZM\*261.6

  LAC 18 FIKHOV & N. #. PART OF LAC 33 SCHNELLER

TUTAL PHOTOS IN THIS GROUP . .

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MIS MAG FRIPHOID PRIMIPT. ORB GET GHT H\_DA-YR CAMERA-LENS OR FILM\_EXPOSURE ALTI SCALE AT IILT SUN SIDE. SION RULE OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. MAIN ( = ESTIMATED) TYPE LUNG. K#N.HI PT. FH LAP K=KM. VERT

- L 5 2 31 20-04N 135-71W 1] \*\*\* \*\*\* 093219 8\*09-67 LUNAR ORB LO-F=80HM B&W NONE 1364K 17050000 280 21-8 2 -.\* CAN-NAD-= 26-12N 113-59H SWING= 89+ PHASE= 130+ EM15+ANG-= 42+ CAM-RAD-= 3103-2 KM+ SUN AZH=270-8 LAC 52 JOULE E-MA 1 W174 MOONS SPHERE 1 LUNAR W+ HEMISPHE 1 LAC 122 LANGMUIR STETSON 6 LAC 121 APOLLO
- L 5 Z 32 24°94N 138°09W 13 °°° °°°° 155741 8°09°67 LUNAR ORB LO°F=80MM 86W NONE 1397K 1746250D 281 21°3 1 ° Camenadem 22°60N 116°73W 5WING= 90° Phase= 130° Emiseange= 41° Camenade= 3136°2 km° sun azm=271°2 Lac 52 Joule Lona 1 w1/4 moons sphere 1 lunar W° hemisphe 1 lac 88 s.W°hertzsprung\*paschen & lac 34 fowler

101AL PHOTOS IN THIS GROUP # 3

CAM-HAD- 58.758 99.81m

LAC 20 COULONS

" NONE 2551K 4181967 284 10+0 8

SUN AZM#250.8

& IAC 35 LANDAU

CAM+RAD+= 4290+2 KM+

THESE THO SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: \* \* DEGRADED PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS SE ALHOST UNUSABLE PHOTOS. C3N1 UN = [L)HU .: 3.(+).(-) W = APPROXIMATELY NEXT TO MAGN. BUBRACKET MOUNTED: G. CAM. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. - SUPER WIDE ANGLE LENS: EKIR-EKTAR 2.8 LENS: HSB = HASSELBLAD: MAURE MAURER: ZP.ZB.ZS = ZEISS LENSIPLANAR.BIOGEN.SOHAR); FOCAL LENGTH(HH) & HAX.F-CPENING 10+ AS EAPOS SPEED # 1/1000 (OR +# THO ZEROS) FUR LUNAR URBITER & AFTER ALTITUDE ENVALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT 0.0

	•						•
Н15 \$101 #	MAG FR,PHUIG PRIN.PT. OF RULL OR LAT. : H MAIN LONG. H	RB GET GMT # TIMES-HR M SEC (!=ESTIMATED)	M=DA=YR CAM	IERA-LENS OR FI SENSOR IYPL	LM-EXPOSURE AND FILTER	ALTI SCALE AT TITUDE PRIN. AZ H=N+HI PT. K=KH.	ANG. ANG. FWD.
LAC	1 13 14-32N 102-40W CAN-NAD-= 11-15N 74-61W 72 ELVEY HUBEL : \$174 MOC	ONS SPHERE : LAC 2	PHASE = 122. O COULOHB 1	EHIS•ANG•= 35• Lac 35 Landau	CAM «RAD »	5755K 9434426 279 7494+2 KM+ SUN 6 LAC 12:	7 × 6 3 ~, * *
LAC	L 14 14-27N 102-39W CAM-NAD-= 11-14N 74-61W /2 ELYEY NUBEL 1 W1/4 HOD	SWINGE 92. ONS SPHERE : LAC 2	PHASE 122.	EMIS+ANG.# 35. Lac 35 Landau	CAM.RAD.	5756K 9436066 279 7495+2 KM+ 5UN 6 LAC 123	A - M= 270 a B
LAC	15 14-23N 102-38W CAM-NAD+= 11-13N 74-61W 72 ELVEY NUGLL 1 @174 MCO	DAS SPHERE I LAC 2	PHASE = 122. B COULOMB :	EMIS•ANG•# 35. Lac 35 Landau	CAM * RAD **	5756K 9436866 279 7495.2 KM. SUN 6 LAC 123	AZH=270.6
LAC	1 16 14-18N 102-37% CAM-NAD-= 11-12N 74-60W /2 ELVEY HOBEL : W1/4 MOO	INS SPHERE : LAC 2	PHASE= 122.	EHIS.ANG.= 35. LAC 35 LANDAU	CAM = RAD • =	5757K 94377n5 279 7496+2 KM+ SUN 6 LAC 123	AZM=>7n=R
LAC	1 17 14-13N 102-364 CAM-NAD-= 11-11N 74-60W 72 ELVEY NUBEL : W1/4 MUU	NS SPHERE : LAC 2	PHASE# 122. O COULOMB 1	EMIS.ANG.# 35. Lac 35 Landau	CAM . RAD . #	5757K 94377n5 279 7496+2 KM. SUN 6 LAC 123	47M=270.0
LAC	1 18 14-09N 162-35W CAM-NAD-# 11-10H 74-60H /2 ELVEY NOBEL ; W1/4 MOO	NS SPHERE : LAC 2	PHASE= 122. U COULONB :	EMIS+ANG.= 35. Lac 35 landau	CAH-RAD . =	5758K 9439344 279 7497+2 KM+ SUN & Lac 123	AZM=270.9
LAC	1 19 14.04N 102.34N CAM-MAD.= 11.09N 74.60W /2 ELVEY NOBEL 1 -WI/4 MOO	NS SPHERE 1 LAC 2	PHASE= 122. U COULOMB :	EMIS•ANG.= 35. Lac 35 Landau	CAM-RAD-m	5758K 9439344 279 7497+2 KM+ SUN & LAC 123	AZH#279+9 3 Steriov
L 5 LAC	1 20 14-00N 102-33% CAM-HAD-= 11-08N 74-60W 72 ELVEY NUBEL 1 WI74 MOD	2 *** *** 133344 Swingm 92. NS SPHERE: LAC 20	8-06-67 L <sup>U</sup> NAR Phase= 122. U coulomb ;	URB HI. ALOMM BGW EMIS.ANG.# 35. LAC 35 LANDAU	- None	5758K 9439344 279 7497.2 KM. SUN & 1.AC 123	7+6 3 ***98 AZMm270.9

25. 59.LBN 129.77W 6 ... 6 ... 205019 8-07-67 LUNAR URB HI. 610MF B6W

SWING= 89. PHASE= 107. EMIS-ANG. = 25.

; with moons sphere; lac los moorients; lac los piazziovobouvaro

MIS MAG ERIPHUTU PRIMIPT. URB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG, ANG, FWD. MALN LUNG. ( =ESTIMATED) TYPE MeN+MI PT. FR. LAP KmKH. VERT 8, 8 L 5 1 315 27.92N 135.74W 11 .00 000 093219 8-09-67 LUNAR ORB HI. 610HM B6W NONE 1364K 2236066 280 21+8 2 -- \*\* CAM-NAD .= 26.13N 113.59N 5#146# 89. PHASE 130. EMIS.ANG. 42. CAM.RAD. 3101.2 KH. SUN AZH#270.8 DEGRADED REGATIVE I LAC 52 JOULE E.HACH & LAC 35 LANDAU

TUTAL PHOTUS IN THIS GROUP = 13

CAM-NAD-# 58-79N 81+10%

S# AUROST UNUSABLE PHOTOS. . . DEGRADED PHOTOS. THESE TAU SYMBOLS NEXT TO MAIN OR PHOTO NUMBER HEAN: TILL ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA SXIS w = APPRUXIMATELY NEXT TO MAGE + BEBRACKET MOUNTED: G. CAH. ON GROUND SN.A. . SUPER HIDE ANGLE LENST EKTREEKTAR 2.8 LENST [-].(+).( ). OR(O) = NO THEO MAUR HAURER: ZP. ZB. ZE ZE 155 LENS (PLANAR, BIOGEN, SONAR); FOCAL LENGTHIMM; & MAX.F-OPENING LAMERA-LENS AS FOLLOWS: HSB= HASSELBLAD! 10 AS EXPOS SPEED # 1/1000 toR \*\* Two ZEROS; CULUMN HEADINGS APPLY TO FIRST UATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGONEGO AT PP IF ALT NOT OOR FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST WATA LINE OF EACH PHOTOS SCALE IS THE MAN OF			
HIS MAG FREPHUTU PRINEPT. URB GET GHT M-DA-YR CAMEHA-LENS OR FILM-EXPOSURE SIUN NULL UR LATE # TIMES-HR M SEC SENSOR AND FILTER TYPE HAIN LUNG: (FRESTIMATED)	K=KH+ H=N+HI	PT.	FR. LAP VERT S. R
UNAR ORB LOST #BOHM BOW - NON	E 2724K 34 4463+2 K NTIL	6 LAC 36 F	AZM# 85+1 RONTGEN LORE
L 4 2 187 14-965 89-068 33 0-0 053334 5-25-67 LUNAR ORB LJ-F#BOMM R68 CAM-RAD-W L 4 2 187 14-965 89-068 33 0-0 053334 5-25-67 LUNAR ORB LJ-F#BOMM R68 CAM-NAD-# 14-365 89-498 SHING# 3300 PHASE# 77 E'115-ANG-# 1- CAM-RAD-W LAM-NAD-# 14-365 89-498 SHING# 3300 PHASE# 1 LNC 143 5-HAUSEN LEGE	4462.2 K	(M• 5UN & LAC 36	AZM= 85+4 Rontgen Lore
LS 1 5 54.64N ILL.74# Z *** *** 112203 8-06-67 LUNAR JRB HI. 610M 86W	4386+2	CH+ 511N 6 LAC 36	AZM#259.5 Rontgen Loren
L 5   6 59.63N 111.66W 2 000 0000 1122U5 8-96-67 LUNAR URB HI. 610HM BEW	4387+2 1	6 LAC 36	
1 5 1 7 59.56N 111.580 2 2 122U8 8-06-67 LUNAR URB H1. 610MM BUW	4389+2	E LAC 36	9•7 8 -•90 1 AZM=259•7 1 RONTGEN LOREN
LS 1 8 59.49K 111.50H 2 2 11221 8-06-67 LUNAR OHR H1. 610MM R6W NO CAM. RAD CAM. RAD CAM. RAD LAC 9 CREMONA	4391.2	& LAC 3	9.7 890 N AZM=259.8 S RONTGEN LOREN
L 5 1 9 59-43N 111-43W 2 *** *** 112213 8*D6-67 LUNAR ORB HI 610MM 86W NO CAM-NAD-# 58-85N 81-12W SWING# 89. PHASE# 107. EM15*ANG** 25. CAM-RAD***	4393+2	E LAC 3	5 9.6 B90 N AZH=259.9 6 HUNTGEN LORFN
L 5 1 10 59.37k 111.35f 2 12216 8-06-67 LUNAR ORB H1. 610HH 86W - NU L 5 1 10 59.37k 111.35f 2 SWINGE 89. PHASE 107. EMIS.ANG. 25. CAM.RAD. E CAM.HAD. = 58.02k 81.11f SWINGE 89. PHASE 107. EMIS.ANG. 25.	# 4394+2 	e ivc 3	5 9.6 A90 N AZM=259.9 6 RONTGEN LOHEN
LAC 20 COULUMB : \$274 10003 5 MEMBER 12219 B-06-67 LUNAR ORB HI - 610MM R&B - NO L	449647	KM # 31/	4 9+6 8 -+90 N AZM=260+0 6 RONTGEN LOREN

LAC 26 COULUMB : WITH MOUNS SPHERE : LAC 21 N.GERANDOB : LAC 9 CREMONA

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE CAHERA-LENS OR MIS MAG FRAPHOTO PRINAPT. ORB GŁT GMT H-DA-YR AND FILTER TUDE PRIM. AZ ANG. ANG. FWD. SENSOR # TIMES-HR M SEC SION ROLL OR LAT. M=N.HI PT. FR. LAP TYPE (ImbSTIMATED) MAIN LUNG. K=KH+ VERT 8 . 2 - NONE 2659K 4359B16 284 9.6 8 -.90 L 5 1 12 59-24N 111-20N 2 \*\*\* \*\*\* 112221 8-06-67 LUNAR ORB HI. 610MM 86W CAM . NAD . = 58.76N 81.07W 5WING 89. PHASE = 187. EHIS.ANG. = 25. 4398+2 KM+ SUN AZM=260+1 CAH RAD .. & TAC 36 RONTGEN LOREN LAC 20 COULUMB : WI/4 HOUNS SPHERE ; LAC 21 N.GERARD.B : LAC 9 CREHONA

TUTAL PHOTOS IN THIS GROUP . 10

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THESE TWO SYMBOLS NEXT TO HAIN OF POOTO MUMBER MEAN: ... . . . DEGRADED PHOTOS. . . . . . ALMOST UNUSARIE PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZY A VERTICAL TO CAMERA ANTS (-).(+).( ). OH()) = NO IN+O W = APPROXIMATELY NEXT TO MAGN. B=BRACKET MOUNTED; G= CAM. ON GROUND CAMERA-LERS AS FOLLOWS: SW.A. . SUPER HIDE ANGLE LENS! EKTHEFKTAR 2.8 LENS! HSB# HASSFLBLAD! MAUR# MAURER: ZP.ZB.ZS # ZEISS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTHIMM) & HAX.F-OPENING TO AS EXPOS SPEED . IZIONO LOR . THO ZEROSI FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMFTERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGINAS. AT PP TE ALT NOT OLD

MIS MAG FR.PHOID PRIN.PT. URA GET GMT M-DA-YR CAMERA-LENS OR FILH\_FXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HULL OR LAT. & TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FWD. MAIN 1.086. Cime STIMATED ) TYPE M=N.HI PT. FR. LAP v Ep t KEKM. 8. 8

- L 4 1 169 13-69N 68-49N 30 000 0000 180302 5-23-67 (UNAR ORB H1. 610MM 86W " NONE 2672K 4340328 24B .8 17 - . 26 CAMERABAM 19-14H AZERTH Swing= 62. PHASE= 71. EMIS.ANG.= 2. CAM+RAD+= 4411+2 KM+ SUN A7M= 93+5 LAC 56 HEVELIUS.R : LAC 55 VASCODEGAM : LAC 38 SELEUCUS.5 : LAC 37 STRUVE.DALTON 5 LAC 74 GRIMALDI BILL
- L 4 I 170 41-77N 59-6GN 30 \*\*\* \*\*\*\* 183518 5~23-67 LUNAR ORB HI, AIOMM RAW - NONE 2871K 1/0/557 108 2+2 20 -.75 CAM-NAD-= 43-JUN 64-22# SWING= 271. PHASE= 76. FMIS-ANG.= 6. CAM+RAD+# 4610+2 KM+ SUN AZM=107+7 LAC 23 RUMAER SHARP I LAC 22 SE.GERARD, BUNSEN, HARDINI LAC 10 BARBAGE. N. PROCELARM. & LAC 11 J. HERSCHEL.J
- L 4 1 174 13.37N 76.00W 31 \*\*\* \*\*\*\* 860318 5-24-67 LUNAR ORB HI, 610MM B6W NONE 2673K 4381967 255 1.3 16 +.16 SWING= 69. PHASE= 71. EMIS.ANG.= 3. CAM-NAD-= 13-91N /3-95W CAH+RAD+# 4412+2 KM+ SUN A7M# 93+6 EASTERN PART OF LAC 55 VASCODEGAM : EASTERN PART OF LAC 37 STRUVE DAL 1 LAC 73 RICCIDET NE ORIENT & LAC 38 SELEUCUS SCHR
- 1. 4 1 175 41-29N 66-78W 31 \*\*\* \*\*\*\* 063541 5-24-67 LUNAR ORB HI. 610HM 86W - NONE 2872K 4708197 116 2.0 19 -.76 LAM.NAD. 42.86H 70.79W SWINGE 280. PHASE 76. EMIS.ANG. 5. CAM. RAD. # 4611.2 KM. SUN AZM=186.g LAC 22 SE-GERARD BURSEN, HARDING 1 LAC 23 RUMKER, SHARP I LAC TO BABBAGE N. PROCELARM. & LAC 11 J. HERSCHEL. J
- L 4 1 182 15-26N 81-41W 32 \*\*\* \*\*\*\* 180342 5-24-67 LUNAR ORB HI. 610MM BAW NONE 2674K 4383607 329 1-0 16 -- 46 CAM-HAD-= \$3.88H 80.57h Swing= 143. PHASE= 72. EMIS-ANG-= 3. CAM-RAD-E 4413-2 KM+ SUN 42M= 93-7 CENTRAL PART OF LAC 55 VASCODEGAM : CENTRAL PART OF LAC 37 STRUVE, DAL : LAC 73 RICCIOLI NE ORIENT & LAC 27 SE GERARD BUN
- L 4 I 183 43-53N 71-02% 32 \*\*\* \*\*\*\* 1836U7 5-24-67 LUNAR ORB HI. 610MM 86W NONE 2874K 4711475 79 2-8 20 -.79 CAM-HAD-# 42-84N 77-39W SWING= 243. PHASE= 77. EMIS-ANG.= 8. CAM+RAD+# 4613+2 KM+ SUN AZM=108+9 LASIERN PART OF LAC 22 SEGGERARD BUNSEN MARDING : LAC 23 RUMKER. SHA & LAC 37 STRUVE DAI TON
- £ 4 1 188 13-38N 89-22W 33 \*\*\* \*\*\* 060409 5-25-67 LUNAR ORB H1. 610MM B6W NONE 2675K 4385244 285 1.3 15 -.27 CAM+NAD+= 13+92N B7:19. SWING= 69. PHASE# 72. EMIS-ANG.# 3. LAM-RAD ... 4414-2 KM. SUN AZM. 92-7 LAC 55 VASCUDEGAN : LAC 72 ELVEY NOBEL : LAC 37 STRUVE DAL : LAC 54 RELB LAUF & LAC 73 RICCIOLINE.O
- L 4 i 109 41.714 79.794 33 ... .. G63636 5-25-67 LUNAR ORB HI, 610MM R6W " NONE 2978K 4718033 110 1.9 18 -.77 CAM-NAD-= 42-880 84-006 SWING= 273- PHASE= 77- EMIS-ANG-= 5-CAM-RAD. 4617.2 KM-SUN AZM#106+; MESTERN PART OF LAC 22 SE-GERARD BUNSEN HARDING 1 LAC 21 N.GERARD.B & LAC IN BARRAGE.N.PROCELARM.
- L 4 1 176 12.80N 94.86% 34 \*\*\* \*\*\*\* 180431 5-25-67 LUNAR ORB HI. 610MM BGW - NONE 2475K 4385246 224 .9 15 -.25 LAM-MAD-= 13-880 93-820 Suing= 38. PHASE= 73. EMIS-ANG.= 2. CAH+RAD+# 4414+2 KH+ SUN, AZH# 92+7 EASTERN PART OF LAC 72 ELVEY NOBEL : EASTERN PART OF LAC 54 BELB LAUE : LAC 90 LOWELL & Lac 37 STRUVE DALTON

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LAC 37 STRUVE, DALTON

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HIS HAG FREPHOTO PRINEPTE ORB GET GHT HEBBETR CAMERALENS OR FILH-EXPOSURE ALT SCALE AT TILT SUN SIDE.

SION HULL OR LATE # TIMES-HR M SEC SENSOR AND FILTER TUDE PRINE AZ ANGE ANGE FROE

# # HAIN LONGE (IMESTIMATED) TYPE MENEMI PT. FR. LAP

# KEKM. VERT %, %

TUTAL PHUTUS IN THIS GROUP . 9

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- HIS HAG FR.PHUTU PRIN\_PT\_ ORA GET GMT H-DA-YR CAMERA-LENS OR FILM-FXPOSURF ALTI SCALE AT TILI SUN SINE. STON ROLL OR LAT. # TIHES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. MAIN FONG. ( = ESTIMATED) TYPE M=N\_M1 PT\_ FR\_ K=KH. VERT 5 . P
- L 4 2 140 71-06N 16-31W 25 000 000 570801 5-21-67 LUNAR ORB LO-F=80MM 86% NONE 3355K 41937500 117 1-2 13 -.00

  CAM-HAD-= 72-21N 22-53W SWING= 297. PHASE= 81. EHIS-ANG.= 3. CAM-RAD-0 5094-2 KH. SUN AZH=127-7

  LAC 3 PHILULAUS-B : W>1/2 HOUN SPHERE : LAC 38 SELEUCUS-S : LAC 1 N.POLE NEARSIDE BYRD-PEARY >80 N 6 LAC 16
- L 4 2 149 15.055 40.76% 27 ... 052940 5-22-67 LUNAR DRB LO.F.BOMM B&W -- NONE 2720K 34000000 127 .7 18 -.88 LAM.NAD.= 14.405 49.64% Swing= 313. Phase= 74. EMIS.ANG.= 2. CAM.RAD.= 4459.2 KH. SUN AZH. 64.4 LAL 75 LETROWNE.F; W>1/2 MOON SPHERE; LAC 136 BAILLEY.K; LAC 38 SELEUCUS.SCHROTER V. & LAC 25 CASSINI.ALPS
- L 4 1 151 40+88N 40+20W 27 \*\*\* \*\*\* 063228 5\*22-67 LUNAR ORB H1+ 610MH B&W NONE 2866K 4698361 118 2\*4 21 -.76

  CAM+NAD+# 42+84N 44+74W SWING= 282\* PHASE= 75\* EHIS\*ANG\*= 6\* CAM\*RAD\*# 4605\*2 KH\* SUN AZH=108\*3

  EASTERN PART OF LAC 23 RUNKER\*SHARP ; LAC 24 SINUS TRID 6 LAC 11 J\*HERSCHEL\*\*JURAS\*\*BOUGUER
- L 4 I 158 41.99N 47.66W 28 \*\*\* \*\*\* 183333 5-22-67 LUNAR ORB HI . 610HM B&W NONE 2866K 4698361 106 1.7 20 -.78

  CAM-HAD. 42.85N 51.22W SWING 27I. PHASE 75. EMIS.ANG. 4. CAM.RAD. 4605.2 KM. SUN AZM-107.7

  EASILMN PART OF LAC 23 MUNKER, SHAR I LAC 24 SINUS IRIUU I LAC 111 MILHELM, E ; LAC 38 SELENCUS. SCHROTER V. 6 LAC 39 ARISTARCH
- E 4 1 162 13+22N 62+17W 29 \*\*\* +\*\*\* 0602G8 5=23=67 LUNAH ORB HI 610HM B6W = NONE 7670K 4377049 243 1+0 17 → 30 CAM+H4D+= 13+93N 60+75W SWING= 57\* PHASE= 71\* EMIS+ANG+= 3+ CAM+R4D+= 4409+2 KM+ SUN AZH+ 93+4 HESIENN PARI UF LAC 56 HEVELIUS,REINER I CENTRAL PART OF LAC 38 SELEUCUS,S 6 N° W+ PART OF LAC 74 GRIMALD1+BIL
- L 4 I 163 41+21N 53+38W 29 \*\*\* \*\*\* 063426 5=23=67 LUNAR ORB HI. 610MM B&% NONE 2867K 470000B 115 2+2 20 -+76

  CAM+MAD+\* 42+87N 57+71% SWING= 279. PHASE= 76. EMIS+ANG.\* 6. CAM+RAD+\* 4A06+2 KM\* SUN AZM\*1C7+7

  CENTRAL PART OF LAC 23 MUNKER, SHARP ; LAC ID BABBAGE\*N+PR ; LAC 11 J+HERSCHEL, J & NORTHERN PART OF LAC 38 SELE\*\* US, SCH
- E 4 1 169 13-69N 68.49W 3D \*\*\* \*\*\* 180302 5-23-67 LUNAR ORB H1. 610HH 86W NONE 2672K 4380328 248 .8 17 -.26

  LAM-NAD-\* 14-14N 67-33W SWING= 62. PHASE\* 71. EMIS-ANG.\* 2. CAM-RAD-# 4411-2 KM. SUN AZM# 93-5

  LAC 56 MEVELIUS-R; LAC 55 VASCODEGAM; LAC 38 SELEUCUS-S; LAC 37 STRUVE-DALTON & LAC 74 GRIMALDI.BILL

FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. MIS MAG FR.PHUIG PRIN.PT. URB GET GMI M-DA-TH CAMERA-LENS OR TIMES-HH M SEC SENSOR AND FILTER TUDE PRIN. AZ RNG. ANG. SION RULL OR LAT. M=N.MI PT. FR. (I=ESTIMATED) TYPE LAP MAIN LUNG. KEKM. VFRT S . S

- L 4 1 170 41-77N 59-60W 30 \*\*\* \*\*\* 183518 5-23-67 LUNAR ORB H1. 610MM B6W NONE 2871K 4706557 108 2+2 20 --75

  CAM.NAD.= 43-00N 64-22W SWING= 271. PHASE= 76. EMIS.ANG.= 6. CAM.RAD.= 4610-2 KM. SUN A7M=107+7

  LAC 23 HUMREH.SHARP : LAC 22 SE-GEHARD.BUNSEN.HARDIN; LAC 10 BABBAGE.N.PROCELARM. & LAC 11 J.MERSCHEL.J
- L 4 1 174 13-37N 76-00% 31 \*\*\* \*\*\* 060318 5-24-67 LUNAR ORB H1, 610MH R6W NONE 2673X 4381967 255 1-3 16 -,16

  CAM-HAD.= 13-91H 73-95% SWING= 69. PHASE= 71. EMIS-ANG.= 3. CAM-RAD.= 4412-2 KM+ SUN AZM= 93-0

  LASIERN PART UF LAC 55 VASCODEGAM; EASTERN PART OF LAC 37 STRUVE-DAL; LAC 73 RICCIOLI.NE-ORIENT & LAC 38 SELEUCUS-SCHR
- L 4 1 175 41+29N 66-78N 31 \*\*\* \*\*\* 063541 5-24-67 LUNAR DRB H1+61DMM B6N NONE 2872K 470R197 116 2+0 19 -+76

  CAH-NAD-\* 42+86N 70+79N SWING= 28U+ PHASE= 76+ EMIS-ANG+= 5+ CAM+RAD+= 4611+2 KM+ SUN AZM+106+8

  LAC 24 SE-GENAND-BUNSEN-HARDING 1 LAC 23 RUMKER-SHARP 1 LAC 10 BABBAGE-N+PROCELARM+ 6 LAC 11 J+HERSCHE!+J

- L 5 1 203 25-22N 49-51W 8U ++\* ++\* 121036 8-18-67 LUNAR DRB H1. 610MH BDN NONE 135K 221311 297 6-1 15 -LAM-NAD-- 25-00N 49-04W SWINGE 202. PHASE= 68. EMIS-ANG-= 7. CAM-RAD-= 1874-2 KM- SUN AZM= 95-8
  DESTERN PART OF LAC 39 ARISTARCHUS 6 EASTERN PART OF LAC 38 SFLEUCUS.SCHROTER V.
- L S 2 203 25+23H 49+52N 80 \*\*\* \*\*\*\* 121036 B=18+67 LUNAR ORB CO.F#88MM 86W NONE 135K 16875OD 297 6+3 15 -+86 Cam+nad+\* 25+01N 49+04W SWING# 202+ PHASE# 68+ EMIS+ANG+# 7+ CAM+RAD+# 1874+2 KM+ SUN A7M# 95+8 WESTERN PART OF LAC 39 ARISTARCHUS & EASTERN PART OF LAC 38 SELEUCUS,SCHRÖTER V+
- L 5 1 204 25+61N 49+47M 80 000 0000 121042 8-18-67 LUNAR ORB HI. 610MM 86W NONE 136K 222951 300 6+3 15 -+ 4
  CAN-HAD-= 25-36N 49+00W SWING= 205+ PHASE= 68+ EMIS-ANG+= 7+ CAH-RAD-= 1875+2 KM+ SUN AZM= 95+9
  mESIERN PART OF LAC 39 ARISTANCHUS & FASTERN PART OF LAC 38 SELEUCUS, SCHROTER V.
- L 5 2 254 25.62N 49.48H HO ++\* ++\* 121043 8-18-67 LUNAR ORB LO,F=80HH B&W NONE 136K 170NNO 3NN 6.4 15 -.87
  CAM-HAD-= 25.37N 49.00H SHING= 205. PHASE= 68. EMIS-ANG== 7. CAM-RAD-= 1875-2 KM. SUN A7H= 95.7
  HESTERH PART OF LAC 39 ARISTARCHUS & EASTERN PART OF LAC 38 SELEUCUS,SCHROTER V.
- L 5 2 205 26.01N 49.454 AD \*\*\* \*\*\* 121049 B\*18-67 LUNAR URB LO.F¤80MH B&W \*\* NONE 137K 1712500 303 6.6 15 \*\*.87 LAM-NAD-# 25.72N 48.964 SWING# 208. PHASE# &B. EMIS-ANG-\* 7. CAM-RAD-# 1876-2 KM- SUN AZM\* 96.0 BESTERN PART OF LAC 39 ARISTANCHUS & EASTERN PART OF LAC 38 SFLEUCUS.SCHROTER V.

	MAG PREPUDIO P N HULL ON LAT M MAIN M	FOHG.	(Imestinated)		SENSOR Type		TUDE PRIM. M=N.MI PT. K=KM.	TILT SUN S A2 ANG. ANG. FR. VEHT	FWD.
		N. E. PART	OF LAC 30 SE	LEUCUS, SCHROTER	l V.	B&W - NONE • CAM+RAD+#			
լ 5	2 206 21+41N Camenade= 21.2cm		*** **** 183307 Shing= 200. UF Lac 38 Set	DMYZC= 10	F-4 F C	B&W = NONE • CAM•RAD•=	142K 17750nn 1881+2 KM+	295 6+0 15 SUN AZH= 96+4	-,••
	1 237 27+75N Can-Had-# 27+51N	N. E. PART	OF LAC 38 SEL	.EUCUS.SCHROTER	EM15.ANG.# 6	· CAH-RAD-=	143K 234476 1882•2 KM•	298 6+0 15 SUN AZM= 76+5	-,;8
	2 ZJ7 Z7+76N Cam+nad+= 27+52N	H. E. PART	OF LAC 38 SEL	PHASE = 69. EUCUS, SCHRUTER	EMIS+ANG.# 7.	· CAM+RAD+=	143K 1787500 1882+2 KM+	298 6+1 15 SUN AZH# 96+5	-,8A
	l 208 28+14n Cam+nad+= 27+87n	N. E. PART	OF LAC 38 SEL	PHASE 49. EUCUS.SCHROTER	EMIS+ANG+# 7.	CAH+RAD+m	144K 236A66 1883•2 KM•	301 6+2 15 SUN AZM# 96+6	10
	2 2J8 28+15N CAM=HAD== 2J+87N	N. E. PART	OF LAC 38 SEL	PHASE# 69. EUCUS.SCHROTER	EMIS+ANG. 7.	CAM+RAD+=	144K 1600000 1883•2 KM•	3nl 6+3 15 SUN AZH# 96+6	-,87
	1 209 28=56N CAM+HAD+# 28+26N	N. E. PART	OF LAC 38 SEL	PHASE= 69. EUCUS.5CHROTER	EMIS+ANG+= 7.	CAM+RAD+m	1884+2 KM+		
( b	4 2∪9 28°57N Cam∘Mad•= 28°26N	52+68# 82 • 52+17h H. E. PART	** *** 183327 Swinge 209. OF LAC 38 SEL	8-18-67 LUNAR PHA5E= 69. EUCUS.SCHKOTER	URB LU.F=80MM B EMIS+ANG.= 7. V.	EW = NONE CAM-RAD-=	145K 18125go 1884+2 KM+	304 6+5 15 SUN A2M® 96+7	86

TOTAL PHOTOS IN THIS GROUP # 2

. 9

HIS MAG FR.PHOTO PRIN.PT. ORB GET GHT M-DA-YR CAMERA-LENS OR FII M\_FXPOSURE ALTI SCALE AT TILT SUN SIDE. UR SION RULL LAT. TIMES-HR M SEC SENSOR PRIN. AZ ANG. ANG. FOD. AND FILTER TUDE MAIN LUNG ( = ESTIMATED) TYPE M = N = H I Pt. FR. LAP K=KM. VERT 8. 8 L 4 2 132 9-145 29-598 24 \*\*\* \*\*\* 1725U7 5-20-67 LUNAR ORB LO.F#80MM NEW NAME 2717K 33962500 1 3.4 19 CAH . NAD . = 14.425 24.698 Swing= 188. PHASE 72. EHIS.ANG. 9. CAM.RAD.= SUN A7M= 86+2 4456.2 KM. LAC 10 MIPHAEUS M : WEI/2 MOON SPHERE : LAC 125 SCHILLER, I LAC 39 ARISTARCHUS & LAC 25 CASSINITALPS t 4 | 1.33 | 18.73N | 29.698 | 24 \*\*\* \*\*\* 175540 | 5-20-67 tunar urb hi. Airmh be<sup>h</sup> NONE 2473K 4381967 340 3+3 19 CAM-NAD . 13.91N 27.86W Salug- 156. PHASE - 68. EMIS.ANG. . 8. CAM . RAD . ... 4412+2 KM+ SUN AZMA 9549 MESTERN PART OF LAC 40 TIMOCHARIS-LAMBERT : LAC 39 ARISTARCHU & LAC SA COPERNICUS, REINHULD L 4 1 138 13-7.12 36-45W 25 \*\*\* \*\*\*\* 055724 5\*21-67 LUNAR ORB H1. 610HH BEW NOME 2671K 4378689 263 1+3 18 CAM-HAD-# 13.92N 34-43W Swing= 78. PHASE - 68. EMIS.ANG. - 3. CAM-RAD-# 4410+2 KM+ SUN A7M# 94.0 EASTERN PART OF LAC 57 KEPLER ENCKE I EASTERN PART OF LAC 39 ARISTARCHU & NORTHERN PART OF LAC 75 LETRONNE .FLA L 4 1 139 44-16N 28-25W 25 000 0000 062940 5-21-67 LUNAR ORB H1. 610MM BEW NONE 2872K 4708197 102 1.6 20 5n1NG= 267. CAM.NAD. # 42.81N 31.79W PHASE= 74. EMIS.ANG.= 4. CAH.RAD. 4411+2 KM+ SUN AZM=108+6 CENTRAL PART OF LAC 24 STRUS TRID : LAC II JOHERSCHEL JURAS BOUGUER 6 LAC 12 PLATO ALPINE VAL. L 4 I 144 14.03N 41.76% 26 ... 175854 5-21-67 LUNAR ORB HI. 610MM A6W NONE 2669K 4375410 280 85 L9 - . 3n CAM-HAD . = 13-9UN 41-DIW Saluge 94. PHASE = 70. EHIS.ANG. = 1. CAM-RAD .. 4408.2 KM. SUN AZM= 94.3 CENTRAL PART OF LAC 57 KEPLER, ENCKE T CENTRAL PART OF LAC 39 AR15TARCHU 6 N. W. PART OF LAC 75 LETRONNE.FLA L 4 1 145 42-33N 33-70W 26 \*\*\* \*\*\* 1831U9 5-21-67 LUNAR ORB HI. 610MM BEW NONE 2868K 4701639 96 2+1 21 -.70 CAH-HAD-# 42-818 38-278 SWING= 260. PHASE = 75. EHIS.ANG. = 5. CAM-RAD-4407+2 KH+ 50N AZH=109+1

#ESTERN PART OF LAC 24 SINUS IRIUUM : LAC 23 RUMKER.SHA & LAC 11 J.HERSCHEE.JURAS.80UGUER

L 4 I 150 12-70N 49-29% 27 \*\*\* \*\*\* 060012 5-22-67 LUNAR ORB HI. 610MM R6W - NONE 2468K 4373770 234 1-3 18 -.2

CAM-NAD.= 13-91N 47-59% SWINGE 48. PHASEE 70. EMIS.ANG.= 3. CAM-RAD.= 4407-2 KM. SUN A7M= 93-5

LAC 57 NEPLEM.ENC 1 LAC 56 MEVELIUS.R ; LAC 39 ARISTARCHU ; LAC 38 SELEUCUS.SCHROTER V. 6 4AC 75 LETRONNE.FLAM

L 4 1 151 40-884 40-208 27 \*\*\* \*\*\* 063228 5-22-67 LUNAR DRB HI. 610MH B&W - NONE 2866K 46983A1 118 2-4 21 +.7.

CAM-MAD-- 42-849N 44-74W 5WING= 282+ PHASE= 75+ EMIS-ANG.= 6+ CAM-MAD-- 4A05-2 KM+ SUN AZM=108-3

LASTEHN PART UF LAC 23 RUNKER-SHARP : LAC 24 SINUS IMED 6 LAC 11 J-HERSCHEL-JURAS-BOUGUER

BEBRODOGMANTA OF THE

MIS HAG FR. PHUTU PRIMAPTA URB. GET. GHT. HADA-YR. CAHERA-LENS OR. FILM-EXPOSURE. ALTI SCALE AT TIL T. SUN SIDF.

SIUN HULL UH LATO B TIMES-HR M SEC SENSUR AND FILTER TUDE PRING AZ ANGO ANGO FWDO B B HAIN LUNGO (IRESTIMATEU) TYPE MRNOMI PTO FRO LAP B KRKMO VERT E. K

L 4 1 158 41.99N 47.660 28 000 0000 183333 5-22-67 LUNAR URB MI. 610MM B&W - NONE 2866K 4698341 106 1.7 20 -078

CAM.UAD.= 42.85N 51.22W SAING= 271. PHASE= 75. EMIS.ANG.= 4. CAM.RAD.= 4605.2 KM. SUN AZME107.7

EASTERN PART OF LAC 23 RUNKER,SHAR; LAC 24 SINUS IRIDU 1 LAC 111 MILHELM.E 1 LAC 38 SELEUCUS.SCHROTER V. 6 LAC 39 ARISTARCH

L 4 2 190 70-34N 63-47W 33 \*\*\* \*\*\* 0\*\* 071554 5-25-67 LUNAR ORB LO-FRBOHM DUB - NONE 3373K 42162500 125 1-9 14 --\*\*

CAM-HAD-- 72-71N 72-45W SWING= 306- PHASE= 82- EM15-ANG.= 6- CAM-RAD-- 5112-2 KM- SUN AZM-129-2

LAC 2 ANAXIMENES: 1 W-31/2 HOOH SPHERE | LAC 54 BELB LAUE | LAC 15 H-HUHBOLTIANUM & 1AC 27 GFMINUS-ATEAS

t 5 l 186 25+76N 43+74# 77 == 0+00 023758 8=18=67 LUNAR ORB HI+ 610MM 86% = NONE 137K 224590 349 l+1 l+ →+00 Cam-Bad+ 25+67N 43+72% SWING= 255+ PHASE= 73+ EHIS+ANG+= l+ CAM-RAD+ 1876+2 KM+ SUN AZM= 96+4 N+ W+ PARI OF LAC 39 ARISTARCHUS

L 5 L 187 26-13N 43-70% 77 \*\*\* \*\*\* 023894 8-18-67 LUNAR ORB HI, 610HH BEW - NONE 138K 22623O 353 1.5 14 -.

CAM-HAD. # 26-32N 43-68h SWING# 258. PHASE# 73. EMIS-ANG. # 2. CAM-RAD. # 1877-2 KM. SUN AZM# 96-5

N. N. PARI OF LAC 39 ARISTARCHUS

1. 5 2 187 26.19N 43.71W 17 44\* 44\* 023804 8-18-67 LUNAR ORB LO.F#ROHM B&N - NONE 138K 1725000 34R 1.516 -.
CAH-NAD-- 2'-02N 43.68N SWING= 253. PHASE= 73. EMIS-ANG.+ 2. CAH-RAD-= 1877-2 KM- SUN A7M- 96-5
N- 6- PART OF LAC 39 ARISTARCHUS

¿ 5 1 108 26.510 43.66% 77 \*\*\* \*\*\* 023810 8=18-67 LUNAH DN8 H1. 610MM R6% - NONE 139K 227869 355 1.8 16 --, 8 Lam.nau.= 26.37N 43.65% - Shing= 260. Phase= 73. Emis.ang.= 2. Cam.rad.= 1878.2 κΗ. Sun A7H= 96.6 N. n. part up lac 39 aristarchus

E 2 148 20-52N 43-676 77 \*\*\* \*\*\* 023811 8-18-67 LUMAR ORB LU-FERONM B&W - NONE 139K 17375BO 351 1+9 16 --87

CAM-HAD-= 20-37N 43-65W - SAINGE 256 - PHASE 73 EMIS-ANG.= 2 CAM-RAD-= 1878-2 KM+ SUN AZM= 96-6

No. 8 PART OF LAC 39 ARISTARCHUS

WESTERN PART OF LAC 39 ARISTARCHUS

	MAG FR <sub>e</sub> phutu N Hull DA La Hain B		11163-NR 11 3EC		MERA-LENS OR Sensor Type	F1LM_EXPOSU AND	FILTER TUDE M=N	PRIN. •MI PT•	T 1 L T SUN A7 ANG. ANG FR.	F#D. LAP
ι 5	1 190 27-27N Cam-Had.= 27-07	43.58# 77 N 43.57% N. W. PARI	*** *** G23823 SWING= 263. UF LAC 39 AR	8-18-67 LUNAR Phase= 73. Istarchus	URB HI. 6IBHM EMIS•ANG•≖	П&W — 3. САМ.:	K™K 141 1880 = 1880		VERT 358 2.5 16 SUN AZM# 96.5	
ξ 5	2 190 27+28N Cam+NaD+= 27+u7	N 1343/W	*** **** 023823 5wing= 260. UF LAC 39 ARI	PHASE 73.	ORB LOSFEBORM EMISHANG+# :	B&W - 3. CAM+!	NONE 141 0881 =•CAP	C 1762500 •2 KH•	355 2+6 16 SUR AZM# 96+5	A7
ι5	1 171 27.66N Canadado# 27.42	N 73.53H	5wing= 264. UF LAC 39 ARI	PHASE # 73.	ORB HI. AIOHM EMIS.ANG.= 3		NONE 142 RAD+# 1881	; 23 <sup>2</sup> 797 •2 км:	359 2.9 16 SUN AZH# 97.0	-, 8
L 5	2 191 27.67N Can-Had.= 27.43	43.54W 77 W 43.53W	*** **** 023410	8-18-67 LUNAR	ORB LO.F BOMM EMIS-ANG.*	B&W -	NONE 1421 PAD == 1881	1775mg8 2 kM+	356 2.9 16 SUN AZM= 97.0	87
ιδ	1 i92 2d.u4N Can.hau.= 47.781	43+49h 77 N 43+49h	*** *** ***	B=18=67 LUNAR	ORB HI. 610MM EMIS.ANG.= 3	B&W - CAM+R	NONE 1438 145 - 1482	234426 2 KM+	360 3+2 16 SUN AZH= 97+2	<b></b> 8
ί 5	2 192 28.USN Can.Nad.= 21.78;	43.500 77 4 43.490	Aresen eese ***	8-18-67 LUNAR	URB LO.F BOOMM EMIS.ANG.= 3	864 - CAM+R	NONE 1431 AD•= 1882	. 17875na 2 km+	357 3+3 16 SUN AZM# 97+2	87
ι 5	1 193 28.43N Lanenade= 28.14n		*** *** 0 <sup>2</sup> 3843 Saing= 265. UF Lac 39 Ari		ORB HI. 610HN EMIS-ANG. #	B&W - CAM+R	ХРР¶ ЗИПИ • ЕВВ1 ш• ОА	236066 2 KM•	1 3+6 16 SUN AZH# 97+3	<b>-</b> , g
ι 5	2 193 28+44H CAH+HAD == 28+14H	42.424	5ming= 263. OF LAC 39 AHI	PHASE 2 73.	ORB LO.F=80HM EMIS-ANG.= 4		NONE 144K Adam 1863.	5 KM+ 18000uu	358 3+6 16 SUN AZM= 97+3	87
( 5	1 194 22.01N CAM+NAD+# 21+95N	47•A0W	*** *** 085844 Swing= 312. Of Lac 39 Ari	PHASE JE	ORB HI. 610MM EMIS.ANG. # 1		ยกทE 127K AD•= 1866•	208197 2 km.	47 1+3 16 SUN A7Mm 95+1	-,••
ι 5	∠ 194 22.02N CAM-NAD-= ∠1.96N	7/#6(/)	5w1NG= 336. Of Lac 39 Ari	PHASES 75.	ORB LO.F#80HM EMIS+ANG+#		NONE 127K AD+= 1866+	15875/ՈՌ 2 ԷМ•	41 1+3 16 SUN AZM# 95+1	-,••
ι 5	1 195	77.6778	*** **** 085850 Swing= juy. UF LAC 39 ARI:	PHASE 75.	ORB HI. 610MM : EMIS - G. = 2		NONE 128K AD-= 1867•	289836 2 KM+	39 I+6 16 SUN AZM# 95+2	-, g
t 5	Z 195 22+37N CAH+NAD+= 22+28N	47+50% 79 +	••• ••• <b>08585</b> 6	8-18-67 LUNAR		B&W - • CAM=R	NANE 128k AD+= 1867+	160nnag 2 KH+ :	34 1+5 16 SUN AZH= 95+2	-,87

WESTERN PART OF LAC 39 ARISTARCHUS

ALTE SCALE AT TELT SUN SIDE. FILM-EXPOSURF MIS MAG FR. PHOTO PRIN. PT. ORB GET GMT M.DA-YR CAMERA-LENS OR AND FILTER TUDE PRING AZ ANG. ANG. FAD. SENSOR SION HOLL OR LAT. # TIMES-HR M SEC NaN.MI PT. FR. LAP TYPE N M HAIN LONG. (IMESTIMATED) VERT 8. F K#KM. \* - NONE 129K 211475 33 1+8 16 ++ 8 L 5 1 196 22-71N 47-45W 79 \*\*\* \*\*\*\* 085856 8-18-67 LUNAR ORB HI. 610MM 86W CAM-RAD-= 1868+2 KM+ SUN AZH= 95+3 CAMONADO = 22.660N 47.54W SWING= 298. PHASE= 75. EMIS.ANG.= 2. MESTERN PART OF LAC 39 ARISTARCHUS - NONE 129K 1612500 29 1.8 16 +.87 L 5 2 196 22-12N 47-46N 79 \*\*\* \*\*\* 085856 8-18-67 LUNAR ORB LO.F.BOMM BEN CAM+RAD+# 1868+2 KH+ SUN AZH# 95+3 LAH.NAD. 22.60H 47.53H SWING 294. PHASE 75. EMIS.ANG. 2. MESTERN PART OF LAC 39 ARISTARCHUS \* NONE 130K 213115 29 2+1 16 \*\* 8 L 5 | 197 23-06N 47-42W 79 \*\*\* \*\*\* 0859h2 8\*18-67 LUNAR ORB HI. 61DMM 86W CAH+RAD+# 1869+2 KM+ SUN AZH# 95+4 CAM-NAD-# 22-92N 47-50W SWING# 294- PHASE# 75. EMIS-ANG.# 2-MESTERN PART OF LAC 39 ARISTARCHUS - NONE 130K 1625000 26 2+1 16 -.87 £ 5 2 197 23-07N 47-42W 79 \*\*\* \*\*\* 085902 8-18-67 LUNAR ORB LO.F. BOMM 86W CAM+RAD+a 1869+2 KM+ SUN AZHE 95+4 CAH-NAD = 22.93N 47.50W SWING= 291. PHASE= 75. EMIS.ANG.= 2. RESTERN PART OF LAC 39 ARISTARCHUS - NONE 131K 214754 26 2+4 16 -. 8 1 5 1 198 23-41N 47-38H 79 +6" +6" 0859U8 8-18-67 LUNAR ORB HI. 610HM 86W CAM+RAD+# 1878+2 KM+ SHN AZM# 95+5 CAH NAD .= 23.25N 47.47W SWING# 291. PHASE# 75. EMIS.ANG.# 3. WESTERN PART OF LAC 39 ARISTARCHUS - NONE 131K 1637500 23 2.4 16 -.87 L 5 2 198 23-424 47-39W 79 \*\*\* \*\*\*\* 085908 8-18-67 LUNAR ORB LO.F.BOMM BEW CAM-RAD . 1870-2 KM+ SUN AZH= 95-5 LAM-HAD. 23.260 47.476 SWING 280. PHASE 75. EMIS.ANG. 3. MESTERN PART OF LAC 39 ARISTARCHUS - NONE 131K 214754 24 2.8 16 -. 9 £ 5 1 199 23+77N 47+34W 79 \*\*\* \*\*\*\* 085914 B-18-67 LUNAR ORB HI. 610HM BGN CAM+RAD+# 1870+2 KH+ SUN AZM# 95+6 CAM-NAD .= 23.58N 47.44H SHING= 289. PHASE= 75. EMIS.ANG.= 3. MESTERN PART OF LAC 39 ARISTARCHUS - NONE 131K 1637500 21 2+7 16 -- 87 L 5 2 199 23+78N 47-35H 79 ++\* ++\* 085914 8-18-67 LUNAR ORB LO.F.BOMM BGW CAM-RAD-= 1870-2 KH- SUN AZM= 95-6 CAM=NAD. = 23.568 47.438 SWING= 286. PHASE= 75. EMIS.ANG. = 3. WESTERN PART OF LAC 39 ARISTARCHUS - NONE 132K 216393 22 341 16 -, 9 1 5 1 200 24-12N 47-30W 79 \*\*\* \*\*\*\* 585920 8-18-67 LUNAR ORB HI. 610MM 86W CAM+RAD+= 1871+2 KM+ SUN AZM= 95+8 CANONADO 23.91H 47.40H SWING 287. PHASE 75. EMIS.ANG. 3. WESTERN PART OF LAC 39 ARISTANCHUS - NONE 132K 165mmm 19 3-1 16 -.87 L 5 2 200 24-13N 47-31W 79 -- - - 065920 8-18-67 LUNAR ORB LO-F#80MM 86W CAM+RAD+# 1871+2 KM+ SUN AZM# 95+8 LAH. NAD. = 23.91N 47.40m SWING= 284. PHASE= 75. EHIS.ANG. = 3. WESTERN PART OF LAC 39 ARISTARCHUS - NONE 133K 218033 20 3.4 16 -. 9 1 5 1 231 24.48H 47.27H 79 0.0 0.00 085926 8-18-67 LUNAR ORB HI. 61DMH B6W CAM+RAD+# 1872+2 KM+ SUN AZM# 95+9 CAN-NAD .= 24.24N 47.37N SWING= 285. PHASE= 75. EHIS.ANG. # 4. HESTERN PART OF LAC 39 ARISTARCHUS - NONE 133K 166250U 18 3.4 16 -.87 L 5 2 201 24-490 47-278 79 \*\*\* \*\*\* 085926 6-18-67 LUJAR ORH LO-F=80MM 868 CAM-RAD-= 1872+2 KM+ SUN A7M= 95+9 CAM-NAD-= 24-25% 47-36W SWING= 283- PHASE= 75- EMIS-ANG-= 4-

ALTI SCALE AT TILT SUN SIDE.

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STOR	MAG FR.PHUID PRIN.PT. URB GET GHT RULL OR LAT. # TIMES-HH H SEC # MAIN LUNG. (*=ESTIMATED) #	SEN⊅UR	POSURE ALTI SCALE AT TILT SUN SIDE. AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. MPN.MI PT. FR. LAP KEKM. VERT 9.9
լ 5	1 202 24.83N 49.54W 80 *** *** 121029 CAH:NAD:= 24.64H 47.08% SHING= 199. NESTERN PART OF LAC 39 ARISTANCHUS	PHASE & AR. EMIS.ANG	NONE 134K 219672 294 6+0 15 CAM+RAD+= 1873+2 KH+ SUN AZM= 95+7 OF LAC 38 SELEUCUS,SCHROTER V.
լ 5	2 202 24.84N 49.566 80 121029  CAM-NAD. 24.64N 49.88W SAING= 199.  WESTERN PART OF LAC 39 ARISTARCHUS	PHASE 48. EMIS.ANG. /.	→ NONE 134K 1675Π00 294 6+1 15 ++** CAH+RAD+# 1873+2 KH+ SUN A7H# 95+7 OF LAC 38 SELEUCUS,SCHROTER V.
د ع	1 203 25-22N 49-51H 80 121036 CAM-NAD-= 25-30N 49-04N Shing= 202. AE5TERN PARI OF LAC 39 ARISTARCHUS	PHASE≃ 68. EMIS.ANG.# 7.	- HONE 135K 221311 297 6+1 15 2 CAM+RAD+= 1874+2 KM+ SUN AZM= 95+8 OF LAC 38 SELEUCUS.SCHROTER V.
ι 5	2 203 25.23N 49.52W 86 *** *** 121036 CAH.NAD.= 25.01N 49.04W SWING= 202. HESTERN PART OF LAC 39 ARISTANCHUS	PHASE= 68: EMIS•ANG•= 7•	- NONE 135K 16875NN 297 6+3 15 ++186 CAH+RAD+= 1874+2 KM+ SUN A7H= 95+8 OF EAC OR SELEUCUS.SCHROTER V+
ι 5	1 204 25.61N 49.47% 80 *** *** 121042 CAM.NAD.= 25.36% 49.60% 5WING= 205. "ESTERN PART OF LAC 39 ARISTARCHUS	PHASE= 68. EMIS.ANG.= 7.	→ NONE 136K 222951 300 6+3 15 ++ 4 CAH+RAD+# 1875+2 kH+ SUN AZH# 95+9 DF LAC 3A SELEUCUS+SCHROTER V+

- NONE 136K 1700000 300 6+4 15 -- 87 L 5 2 204 25.62N 49.48W 80 \*\*\* \*\*\* 121043 8\*18-67 LUNAR ORB LO.F.BOMM B&W PHASE= 68. JHIS+ANG.# 7. CAM+RAD+# 1875+2 KH. SUN ATH# 95+9 CAM-NAD = 25.37N 49.00% SWING= 205. 6 EASTERN PART OF LAC 38 SELEUCUS. SCHROTER V. MESTERN PART OF LAC 39 ARISTANCHUS
- NONE 137K 224590 303 6.4 15 +1 6 [ 5 ] 205 25.99N 49.44M 80 \*\*\* \*\*\*\* [2]049 8-18-67 LUNAR DRB H]. 610MM 86W PHASE# 68. EMIS.ANG.# 7. CAM.RAD.# 1876.2 KM. CAM-HAD. # 25.71N 48.96W Swing= 208. & EASTERN PART OF LAC TA SELEUCUS. SCHROTER V. MESIERM PART OF LAC 39 ARISTARCHUS
- NONE 137K 1712500 303 6+6 15 -+87 L 5 2 205 26+61N 49+45# 80 \*\*\* \*\*\*\* 121049 8-18-67 LUNAR ORB LO.F. 80MM 86# LAM-NAD+= 45-72N 48-96W SWING# 208+ PHASE - 68+ EMIS+ANG+= 7+ CAM+GAD+= 1876+2 KH+ SBN AZH# 96-0 & EASTERN PART OF LAC 38 SELEUCUS. SCHROTER V. HESTERM PART OF LAC BY ARISTANCHUS

TOTAL PHOTOS IN THIS GROUP . 53

WESTERN PART OF LAC 39 ARISTARCHUS

MIS had FRIPHUTU PRIMIPT, ORB GET GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURF ALTI SCALE AT TILT SUN SIDE. SIUN ROLL OR LAT. B TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. HAIN LUNG. ( FEE STIMATED) TYPE M=N.MI PT. FR. LAP K=KM. VERT 8. 2

- L 4 1 121 13-81N 16-80W 22 \*\*\* \*\*\* 175143 5\*19-67 LUNAR ORB H1: BIOMM BBN NONE 2A82K 4396721 268 1:3 20 -:10

  CAM-HAD- 13-87N 14-69W SWINGE 83: PHASE 67: EMIS-ANG. 3: CAM-RAD- 4421-2 KM: 5UN AZM# 94-4

  EASIEMN PART OF LAC 58 COPENNICUS:REINHOLD I EASTERN PART OF LAC 40 TIMOCHARIS & NORTHERN PART OF LAC 76 RIPHAEUS HT.
- L 4 1 122 42-07N 9-24W 22 000 0000 102411 5-19-67 LUNAR ORB H1+ 610MM 86W NONE 2895K 4745902 105 1-4 21 -- 77

  CAM-NAU-- 42-76N 12-27N SWING= 270+ PHASE= 73+ EMISOANG+= 4+ CAM-RAD+= 4634-2 KM+ SUN AZM=109+1

  HESTERN PART OF LAC 25 CASSINI, ALP; LAC 24 SINUS IRIDU; LAC 12 PLATO, ALPI; LAC 40 TIMOCHARIS, LAMBERT & LAC 41 APENNINES
- L 4 1 125 12+86N 23+05M 23 +0\* +4\* 055348 5-20-67 LUNAR URB HI+ 610MM H&W NONE 2677K 4388525 238 1+3 20 -436

  CAM+NAD+\* 13+93N 21+27W SWING+ 53+ PHA5E= 68+ EMIS+ANG+= 3+ CAM+RAD+= 4416+2 KM+ SUN AZM= 94+0

  MESIENN PART UF LAC 58 COPERNICUS+REINHULD : CENTRAL P/RT OF LAC 40 TIMOCHARIS 6 N+ W+ PART OF LAC 76 RIPHAEUS MT+
- L 4 1 127 41+2JN 14+29W 23 \*\*\* \*\*\* \*\*\* 062610 5=20=67 LUNAH JRB H1\* 610HH B&W = NONE 2886K 4731148 114 2\*2 22 -\*\*\*\* TAN-0HAD\*\* 42\*8GN 18\*79W SWING\*\* 278\* PHASE\*\* 74\* EMIS\*ANG\*\* 6\* CAM\*RAD\*\*\* 4625\*2 KM\* 5UN AZM\*\*109\*6
  EASTERN PART OF LAC 24 SINUS [RID ; WESTERN PART OF LAC 25 CASSINI\*AL ; LAC 12 PLATO\*\*ALPINE VAL\* & LAC 40 TIMOCHARIS\*LA
- L 4 2 133 18+740 29+69# 24 \*\*\* \*\*\* 175540 5-20-67 LUNAR ORB LO.F=80HH B&W NDNE 2673K 33412500 340 3+3 19 -420 CAM+HAD+= 13+91N 27+86W SWING= 156+ PHASE= 68+ EMIS+ANG+= 8+ CAM+RAD+= 4412+2 KM+ SUN AZME 95+9 LAC 40 TIMUCHANIS+LAMBERT : W>1/2 MOON SPHERE : LAC 93 M+HUMOR+,GASSEND! & LAC 2 ANAXIMENES,PA

L 5 2 162 33-17N 22-12W 65 000 000 122839 8-16-67 LUNAR ORB LO.F=80MM B&W

CAM-NAD.= 32.84H 22.07W SWING= 271.

SOUTHERN PART OF LAC 24 SINUS IRIDUM

•	p	# HA	in Eg.	EDNG.	ORB GET # TIMES ( # = ES	TIMATED)			SENSOR TYPE			AND F	ilīķR	TUDE H=N+H	FRIN.	ΑZ	ANG. FR. VER	ANG.	FWD. LAP S + S
		<b>LENIHAL</b>	PART UF	LAC 24	25 *** ** Swith Sinus Irid	I LAC I	1 J.HERSC	HELIJU	RA5.80U	G N E B	7,	CAM*RA 6 LAC	D • • P	4631+2 4640+41	PINE VAI	SUN L•	AZH#	108•6	
	LA	C 74 GRIM	ALUI.B ;	W>1/2	28 ••° •• Swin Moon spher	E   LAC	136 BALFF	EY•K :	LAC 2	ANG. # 2 SE. GI	EKAHD.BU	CAM.RA Insen,ha	D RDING	4461•2	e KH+ ε La	402 40 34	AZH= TIMOC	84+7 CHARIS	,LA
	5 N	2 136 LAM•NAD•* • E• PARI	15.16N * 14.92N UF LAC	10.50W 9.78W 58 COPE	24 +++ ++ 24144 24 +++ ++	** 10551 <b>7</b> G= 195. NHULD	8-15-67 PHASE N. W	LUNAR = 60. PART	ORB LD EMIS+. OF LAG	•F=80M Ang•= C 59 M	M R&W 12. •VAPORUM	CAM+RA ,Hyginu	N∩NE 0 • = S	108K 1847+2 1 LAC	1350000   KH+   40 TIHO	289 SUN SCHAR	11•7 AZH= IS & L	7 18 93+5 AC 41	~,4R
	5	Z 144 CAM-NAD.* HORI	15+47N • 15+41N HERR PAI	16.19# 16.75# ET UF LAI	61 ••• •• Swinc C 58 Coperi	** 233920 \$* 349* NICUS,REI	8-15-67 Phase Nhold	LUNAR • 80•	ORB LO EMIS.	F=80#! ING • = SOUT!	M 86W 9. HERN PAR	CAM+RA T OF LA	NANE D+= C 46	109K 1848+2 Timucha	1362500 KH+ RIS+1.4MP	SUN SUN	8.9 Azm#	5 19 93.8	50
		I I45 Can.Nad.=	16+3UN - 16+17N -	16.07# 16.65# SOUTHERN	SWING PART OF L	> 233946 >= 341. -AC 40 TII	8#15#67 PHASE: HUCHAR/S;	LUNAR 80. Amberi	ORB H1, EMIS., F	. & I DHI	1 86# 9.	- CAM•RA	NONE D+=	K 	181967 KH+	76 SUN	β ZH≡	94.1	
		5007	ИЕНН РДІ	IT OF LAI	61 *** *** SWINC 4u Timuch	HARIS, LAMI	BERT		£ 4121)	NORT	TERN PAR	CAMORA T DF LA	D•¤ € 5д	1/150+2 COPEANI	-K4+ CU5+REIN	SUN OJOHI	A Z H *	94.1	
L	5	i 159 CAMenabes	4541£	22 - 16W	44 *** *** 5#1NG 40 TIMUC	122817	8-16-67	LUNAR	ORB HI	. 910H	4 86#	•	NONE	155K	254098	11	2 + 3 A Z M =:		-,••
		2 159 CAM.HAD.= NOK[	31.83N   31.63N   44N PAR	22+17# 22+20# IT UF LAC	65 *** *** 5#146 40 TIMUCH	• 122817 = 272 •  ARIS   LAHE	8+16-67 PHASE* SERT	LUNAR 73.	ORB LOS EMIS+A	F=80Hi NG.= SOUTH	1 AGW J. IERN PAR	- CAM.RAI T OF LAI	NONE D•= C 24 !	155K 1894•2 Sinus I	19375nn KM• R] <sub>D</sub> UḤ	5UN	AyHm	99.3	
		5 •	E. PART	DF LAC	eee vee da Bnime Bunie PS	IKIDUM	rnase.	, ,,,	£ ₩13•¥	MG*=	ERN PAR	CAM+RAI T OF LAI	D+# C 40 '	1895+2 11HOCHA	KH∗ Ris÷Lahb	SUN ERT	AZM≠	99.5	
		sout	HERH PAR	IT UF LAC	94 94 69 Sulus Sulus	TK10AW	, ukae-	/3.	6 CH13+A	NORTH	S. ERN PAR	CAM-RAS T OF LAC	0 + m C 4⊓ '	1895•2 Timucha	KM. Ris,lahb	SUN ERT	A7M≈	99.5	
Ĺ	5			~~	65 00 00 00 00 00 00 00 00 00 00 00 00 00	- 6 6	8-16-67 PHASE=	LUNAR 73.	EHIS A	HG	3.	CAM + RAE	) • a	1897.2	1975000 Km. R15.Lambi	SUN	3*1 AZH#		-,87

6 NORTHERN PART OF LAC 40 TIMOCHARIS-LAMBERT

PHASE# 73. EMIS.ANG.# 4. CAM-RAD.# 1899.2 KM.

™ NONE 160K 2000000 6 3.5 17 +.86

SUN A7M# 99.8

MIS MAG FR-PHUTU PRIN-PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT T | L T SUN SIDF.

SIUN RULL OR LAI. # TIMES-HH M SEC SENSOH AND FILTER TUDE PRIN. AZ ANG. ANG. FRD.

# H HAIN LUNG. (I=ESTIMATEU) TYPE M=N-M1 PT. FR. LAP

# YERT 9. 8

TOTAL PHOTOS IN THIS GROUP # 21

.

ALTE SCALE AT TILT SHA SIDE. FILH-EXPOSURE GET GHT H-DA-YR CAMERA-LENS OR MIS MAG FR.PHOTO PRIN.PT. URB PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SENSOR TIMES-HR M SEC SION KOLL OR LAT+ # LAP MEN.MI PT. FR. TYPE ( != LS [ IMATED ] HAIH LUNG. VERT 8 1 2 K=KM.

- L 4 2 92 71+17N 32+23E 17 \*\*\* \*\*\* 165357 5-17-67 LUNAR ORB LO+F\*80MH B&W NONE 3457K 43212500 129 \*6 12 -+90

  CAM+NAD+\* 71+92N 29+48E SMING\* 306+ PHASE\* 79+ EMIS\*ANG\*\* 2+ CAM+RAD\*\* 5196+2 KM+ SUN AZM=127+4

  LAC 4 MEION\*DESIT; EAC 7 KARPINSKY : LAC 41 APEDNINES, I LAC 44 CLEOMEDES+M+CRIS\* & EAC 18 TIKHOV
- L 4 2 116 JUOBON 4049E 21 000 0000 DJOBE 5-19-67 LUNAR ORB LOSF#BOMM RÓW NONE 3397K 42462500 148 06 12 500 Lamanado 710bbn 2048E Swing# 3260 Phase# Boo Emisoango# 20 Camorado # 513602 km Sun Azm#12401 Lac 3 Philulausob 1 Lac 7 Karpinsky : Lac 41 Apennines, 1 Lac 1 Nopolé Nearside Byroopfany >80 N 6 Lac 17

- L 4 L 97 12.97N 9.66E LB \*\*\* \*\*\* 17432B 5\*17-67 LUNAR ORB HI. 610MM R6W % NONE 2705K 4434426 245 1.4 22 --17

  CAM-NAD-= 13.90N 11.76E SWINGE 60. PHASE= 65. EMIS-ANG.= 4. CAM-RAD-= 4444.2 KM+ SUN AZM= 94.7

  LAC 59 M.VAPURUM, BYGINUS ; LAC 60 J.CAESAR, SABINE, JANSEN; LAC 42 M.SERENITY, DAWES 6 LAC 41 APENNINES, MA
- L 4 1 98 40.97N 18.53E 18 ... ... 181025 5-17-67 LUNAR ORB HI. 610MM R6# NONE 2938K 4816393 11R 2.2 23 ...76 Cam.Nad.# 42.81N 14.21E Swing= 282. Phase= 72. Emis.ang.# 6. Cam.Rad.# 4677.2 km. Sun azmælli.3 Lac 26 Euduxus.Bu i central part of lac 13 aristote., i mestern part of lac 42 m.serenity.da#es & lac 41 apennines.hae
- L 4 2 101 15-175 3-83E 19 000 0-00 351444 5-18-67 LUMAR ORB LO-F-BOHN 86W NONE 2720K 34000000 150 05 21 --000 LAM-NAD-- 14-455 3-38E SWING- 3360 PHASE+ 690 EH15-ANG-- 10 CAM-RAD-- 4459-2 KH0 SUN AZH- 83-4 LAC 77 PTOLHAEUS, 1 W21/2 HOUN SPHERE: LAC 41 APENNIHES, 1 LAC 43 MACHOBIUS, PROCLUS 6 1AC 126 CLAVIUS, MAGI

F PRODUCTIVE OF THE

Particular and specimental and appropriate of the con- ser

& LAC 41 APENNINES, HAE

																				A 0 (.	.,,
	Ħ	đ	MAIN		FONG	• (1)	=ESTIM	IATED)	H-DA-YR		TYPE			A <sup>N</sup> D F	ILTFR	TUDE M=N+I	SCALE PRI 41 P	AT T N. A <sup>2</sup> T.	ILT ANG« FR« VER	SUN S Ang.	IDE: FWD: LAP
					. 29 N.¥;	APURUM, n	TGINUS		5=18=67 \ HASQ \$ Ex	STERN :	PART OF	LAC 11	APENN	IINES	r N	2699K	4424 2 KM+	598 23 SU	7 1+: N AzM=	22 94.7	-,38
,	ر 14 ج آ او	AM P	AD.=	42 • 761 F LA	7.576 26 EUD	S S S S S S S S S S S S S S S S S S S	WING=	061815 272• C 25 CA	5-18-67 PHASE: SSINI-ALI	LUNAR 72. P. La	ORB HI. EMIS.AM C 13 ARIS	610MH  G.= 5  TOTE	86# •	CAM+R	NONE AD+# Penn+N	2927K	4798 ! KM+	361 in SU	7 1.7 N AZNO	22	-,77
	L 1E S T Ł	AM N	AD+= ART U	13.891 LAC	5 4 6 W . V A	, 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WING= YGINUS	174732 82.	5-18-67 PHASE:	LUNAR - 66. Seern i	ORB HI. EMIS.AN PART OF	610MM G.= 3 Lac 41	R6₩ • • ▲PFN:	CAM+R	NONE	2693K 4432+2	4414 KM+	754 26 SU	7 1+3 N AZM=	21 94-7	7
ŧ	C A51 <u>E</u>	AM.N RN P	AD = # ART U	12.77N	0 - 86E	SINI.ALP	WING# :	182013 259. C 26 EU	5-18-67 PHASE BUROU	LUNAR 72.	ORB HI. EHIS.AN 12 PLAT	610HH ( G.# 3. 0,ALP[	BGW • • LA	_ CAH+R C 13 A	NONE	2916K 4455+2	4780; KM+	328 9 50	4 1 • 1 N AZM=1	21 09•6	-,72
	DF G K	AM . H. ADED	AU+= 1 NEGA	12.77N	1+86E LAC 25	CASSIN	WING= ;	182013 259. 19>1/2	5-18-67 Phase Moon sph	LUNAR 72. IERE 1	ORB LO.F EMIS.AN LAC I N	=80MM ( G.# 3, .POLE )	B <b>&amp;#</b> • NE≜RSI	CAHER, De ayrı	NONE 10.=	2916K 4655+2	364501 KM•	000 91 SU(	4 1+1 V AZHEL	21 09+6	*•18
	LAI	AN•N; C 58	CUPE:	KN 1 C D 2 1 7 • 8 5 M	8.04M 8.04M 10.44M	21 ••• ร <sub>เ</sub> บ	) •••• =041% j ;	)54938 77. .AC 59	5~19-67 PHASE≃ M.Vaporum	LUNAR 66. Hygin	EWIS.WN OMB HI.	610HM 6 G•= 5. 1 LAC 4	86W • 41 APE	CAM+R/ NNINES	NONE D+= HAEMUS	2687K 4426•2	44044 KM+	718 26 5UI	1+8   AZM=   T180===	19	-, 4
ι	į,		10 = 4	2.7AN	2.678	21 049	••••	162212	5-19-67 PHASE= 3 ARISTUI	LUMAR	GRB HI.	ьтомм в	16 th	-	NONE	2905r	47422	95 101			

- L 4 1 122 42.07N 9.24M 22 \*\*\* \*\*\*\* 182411 5-19-67 LUNAR ORB HI, 610MM 86W CAM-HAD-# 42-76H 12-27h SWING# 270. PHASE# 73. EMIS-ANG.# 4. CAM-RAD-# 4634-2 KM. SUN AZM#109-1 " NONE 2895K 4745902 105 1.4 21 -.77 MESTERN PART OF LAC 25 CASSINI.ALP : LAC 24 STHUS TRIDU I LAC 12 PLATO.ALPI I LAC 40 TIHOCHARIS.LAMBERT & LAC 41 APENNINES
- L 4 2 140 71-JON 16-31W 25 --- 070801 5-21-67 LUNAR ORB LO-F=80MM B&W CAM-NAD-# 72-21N 22-53W SHING# 297. PHASE# 81. EMIS-ANG.# 3. - None 3355K 41937500 117 1-2 13 -... LAC 3 PHILULAUS, B : WORN SPHERE : LAC 38 SELEUCUS, S : LAC 1 N. POLE HEARSIDE BYRD, PFARY >80 H & LAC 16 CAM+RAD+= 5094+2 KH+ SUN AZH=127+7
- L 4 2 143 14-295 41-414 26 \*\*\* \*\*\* 172822 5-21-67 LUNAR ORB LO.F. AGMM A&# CAM-HAD-# 14.415 42.986 SWING# 271. PHASE# 74. EMIS-ANG.# 3. - NONE 2719K 33987500 A5 1.0 19 -. R LAC /5 LETHONNE .F : W>1/2 MOON SPHERE : LAC 128 BIELA . MAT : LAC 23 RUMKER . SHARP CAM+RAD+= 4458+2 KM+ SUN AZHE 84.3 6 LAC 41 APENNINES, HAE
- L 5 1 90° 20-32N 9-22E 46 \*\*\* \*\*\* 235325 8-13-67 LUNAR ORB H1. 610MH BLW CAH-HAD-= 20-19N Y-88E Shing= 188. PHASE= 61. EHIS-ANG.= 1C. " NONE 120K 196721 282 9+1 19 -. ++ S. E. PART OF LAC 41 APENNINES. HARMUS CAM+RAD+= 1859+2 KH+ SUN AZH# 95+8

CAM-NAU -= 20.3UN 3.45E SHING= 215. PHASE= 66. EMIS-ANG.= 6.

N. E. PART OF LAC 41 APENNINES . HAEMUS

	•	LAC 41 APENNINES	•HAEHUS				PAGE	96
E	B MAIR	RIN.PI. URB GEI GMT  # TIMES-HR M SEC LONG. (:#ESTIMATED)		SENSOR Type	AND FILTER	TUDE PRIN. AZ Menemi PT.	ANG. ANG. FR.	FWD. LAP
L 5	2 90° 20°33H CAM•HAD•= 20°19N 5° E° PAHI	9.20E 46 235526 9.88E SWING= 188. I UF LAC 41 APENNINES.HALHE	8-13-67 LUNAR PHASE= 61. US	CORB LOOF#80MM B&W EMISOANGO# 100  So We Part	MANE CAM+RAD+= OF LAC 42	120K 1500000 282 1859+2 km+ SUN	9.3 19 AZM= 95.8	-,••
	CAN-NAD-= 24.50N	9.90E SWING 190. S. E. PART OF LAC 41 APE	8-13-67 LUNAR Phase= 61. Ennines.Haemus	PORB HI. 610MM B&W EMIS.ANG.= 10.	⇔ NαNE CAM∗R≠,J∗α	120K 196721 284 1859+2 KH+ SUN	9+2 19 AZM <sub>®</sub> 95+9	8
		9.23E 46 0.0 0.00 235531 Y.90E SWINGE 190. OF LAC 41 APENHINES.HAEMU		0 24 " 6 FARI	OF LAC 42 1	M • DEKENTTY • DAWED		
	CAM-NAD-# 20-81N 5- E- PART	9.26E 46 9.00 235537 9.93E SKING# 192. OF LAC 41 APENNINES.HAEMU	8-13-67 LUNAR PHASE= 61. JS	URB HI. 610HH BUW EHIS ANG. = 10. 6 S. W. PART	- NONE CAM+RAD+= Of (AC 42)	121K 1983A1 286 1860-2 KM- SUN (	AZM= 96+1	
	2 92 21.000N CAM+NAD+# 20.62N 5. E. PART	9.24E 46 0 235537 9.93E Swing= 192. Uf LAC 41 APENNINES.HAEHU	8=13=67 LUNAR Phase= 61+ Is	ORB LO.F=80HM B&W EMIS.ANG.= 10. & S. W. PART	NONE CAH+RAD.* OF LAC 42 P	121K 1512500 286 1860+2 KM+ SUN /		
	CAM-NAD-0 ZI-13N CAM-NAD-0 ZI-13N S- E- PART	9.29E 46 0.00 235542 9.96E SWING= 194. UF LAC 41 APENNINES:HAENU	8-13-67 LUNAR Phase= 61. Is	ORB HI. 610MM REW EMIS.ANG.= 10. 6 5. W. PART	T NONE CAH+RAD+≡ OF LAC 42 P	122K 200000 288 1861•2 km• SUN A	AZM= 96.2	•
	CAN-MAD-R ZI-14N CAN-MAD-R ZI-14N S-E-PART	9.28E 46 000 0000 235542 9.96E SWINGE 194. UF LAC 41 APENNINES, HAEMU	8-13-67 LUNAR Phase= 61.	ORB LO.F. HOMM REW EMIS.ANG. = 10. & S. W. PART	NONE CAM+RAD+ OF LAC 42 H	122K 1525000 2AR 1861•2 km• sun A 1•Serenity•Dawes	AZM= 96+2	
	CAN+HAD+# &J-46H	2.62E 50 *** *** 124036 3.18E SWING= 183. 351ERN PART OF LAC 41 APE	8-14-67 LUNAR FHASE# 66. NNINES:HAEMUS	ORB H <sup>1</sup> , SIOMM BEW EMIS.ANG. = 5.	- NONE CAM+RAD+#	127K 208197 278 1866+2 KM+ SUN A	A7M# 97+0	
	E A	2°81E 50 *** **** 124036 3:18E SWING= 184. ASTERN PART OF LAC 41 APE	NNINES . HAEMUS	Entarklide 21	CAM+RAD+m	1866.2 KM. SUN A	12M= 96.9	
		2.95E SU 124103 3.32E SWING= 201. ASTERN PART OF LAC 41 APE						
		2.94E 50 124103 3.32E SWINGE 201. ASTERN PART OF LAC 41 APE	- <del>-</del>					
r P	1 106 26.57N CAM.NAD.# 26.3UN	3.08E SO 124128 3.45E SHING# 215.	8-14-67 LUNAR PHASE= 66.	ORR HI. 610MM B&W	- NONE	135k 721311 309	5-5 19	-, • •

" NONE 135K 221311 309 5.5 19 CAM+RAD+= 1A74+2 KM+ SUN AZM# 98+1

	N HOLL UN LAT.	IN.PT. URB GET  B TIMES-HR LUNG. (*=ESTIM	M SEC	SENSOR	F;LM-EXPOSURE AND FILTER	ALT: SCALE AT T: TUDE PRIN. AZ M=N.N: PT. K=KM.	ANG. ANG. FWH.	e P
ξ 5	NUL.65 = GAM.HAJ	3.08E 50 swing= ; 3.46E Swing= ; 451ERN PART OF LAC	Z14 PHASE*	66. EMIS.ANG 6		135K 16875NO 308 1874•2 KM• SUN		Ð
լ 5	1 107 28+16N Cam+4aD+= 27+7uN	3.21E SU 3.59E SWINGE ;	225. PHASE=	66. EH!S.ANG.= 7.	<del>-</del>	140K 229508 319 1879+2 KM+ SUN		•
ι 5	2 107 28-11H CAM-HAU-P 47-71N	3.20E SQ	224. PHA5E.	66. EMIS-ANG. = 7.		140K 1750000 319 1879+2 KM+ SUN		n
	CAM+NAD+# 14+924	IU.50W 57 ••• ••••   9.78W SWING=   5K COPENNICUS.REINHOL	195. PHASE=	UNAR ORB LO.F.*80MM F 60. EMIS.ANG.* 12. PART OF LAC 59 M.VA	CAM+RAD+=	1947.2 PM. SIIN	. 7 May 93. E	8

TOTAL PHOTOS IN THIS GROUP # 35

The same and many many and the same of the

HIS MAG ER.PHUTU PRIN.PT. DRB GET GMT M-DA-YR CAMERA-LENS OR F1LH\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FWD. MALN CIRESTINATEDS TYPE UNG M=N+HI PT. FR. LAP 22 VERT K=KM. 8. 8

- L 4 2 77% 14-925 30-15E 15 \*\*\* \*\*\* \*\*\* 050718 5-16-67 LUNAR ORB LO.F=80MM 86W NONE 2730K 34125000 141 \*4 23 ---\*\*

  CAM-NAD-\* 14-465 29-77E SWING= 327- PHASE= 68- EMIS-ANG-\* 1- CAM-RAD-E 4469-2 KM- SUN AZM= 83-0

  UEGKAULU NEGATIVE : LAC 79 COLUMBO-NE : \$\overline{\text{WON SPHERE I LAC 42 M-SERENITY,DAMES}} 6 LAC 78 THEOPHILUS-KA
- L 4 1 78 13-300 30-21E 15 \*\*\* \*\*\* 953813 5-16-67 LUNAR ORB HI 610MM R6W NONE 2722K 4462295 248 140 24 --40 CAM-HAD-\* 13-860 31-68E SWING= 63. PHASE= 64. EHIS-ANG-= 3. CAM-RAD-= 4461-2 KM- SUN AZH= 95-4 LAC 61 TAMUNITUS-LYELL : LAC 60 J-CAESAN-SABINE-JANSEN : LAC 43 MACROBIUS-PROFEUS & LAC 42 M-SERENITY-D

- . 4 2 89 15-095 16-90E 17 \*\*\* \*\*\* 051844 5-17-67 LUNAR ORB LO-F#BDMM ROW + NONE 2724K 34050000 154 •5 22 --\*\* LAM-NAD-# 14-455 16-59E SWING# 340+ PHASE# 68+ EHIS-3NG-# 1+ CAM-RAD+# 4463+2 KH+ 5UN AZM# 83+2 LAL 78 THEOPHILUS : W>1/2 HOOM SPHERE : LAC 14 ENDYMION+S : LAC 42 H-SERENITY-DAWES 6 LAC 113 MAUROLYCUS+R
- . 4 | 90 i3.75n 15.87e 17 \*\*\* \*\*\*\* 054135 5-17-67 LUNAR ORB H1, 610MM B&W NONE 2711K 4444262 246 1\*6 22 -\*\*72 Cam.Had.\*\* 13.89n 18.40e Swinge 82. Phase= 64. Emis.ang.\*\* 4. Cam.Rad.\*\* 4450.2 km. Sun Azm. 95.0 Pestern Part of Lac 60 J.Caesar.sabine.J I nestern Part of Lac 42 M.Serenity.dawes & N. W. Part of Lac 78 Theophilus.kant
- L 4 1 91 42-03N 25-73E 17 \*\*\* \*\*\* 061439 5-17-67 LUNAR ORB HI. 610MM 86W NONE 2947K 4R31148 100 2-1 24 --36

  CAM-HAD-# 42-00N 20-90E \$WING# 265. PHASE# 72. EMIS-ANG.# 6. CAM-RAD-# 4686-2 KM. SUN A7M#112-5

  EASTERN PART OF LAC 26 EJDOXUS-BOR; LAC 27 GEMINUS-AIL; LAC 13 ARISTOTE...; LAC 14 ENDYMION-STRABO & LAC 42 M-SERENTI
- L 4 L 97 12.97H 9.66E 18 = • • 174328 5-17-67 LUNAR ORB HI. 610MM 86H NONE 2705K 443447% 245 1.4 22 -.17

  CAM-HAD = 13.70N 11.76E SWING= 60. PHASE= 65. EMIS.ANG.= 4. CAM-RAD = 4444.2 KM. SUN AZM= 94.7

  LAC 59 M.VAPURUM.HTGINUS : LAC 60 J.CAESAR, SABINE, JANSEN : LAC 42 M.SERENITY, DAWES 6 LAC 41 APFININES. HA

	7.4	•				-	HL 42 1163	SENCH!	(   Units										. #42	7.3
51	ON	RUL	L 0	r LA	T.	M	TIMES-H	H SEC	н≖рд⇔үR		SENSOR					TUDE MeN+1	PR;N, 11 PT.	, AZ	L T SUN ANG. ANG. FR. VERT	FWD. Lap
		LAM	.NAD.=	42.81	N 14.21	Ε	Su   116=	282.	PHASE:	72.	EMIS+	NG.=	6.	CAMORAS	D • =	4677 .:	K M +	SUN	2.2 23 AZH=111.3 1 APENNINE	l
		CAM	· HAC · =	42.76	N 7.57	E	581116=	272.	PHASE	# 72.	EHIS.A	NG.=	5.	CAM-RAI	0 • =	4666+3	2 KHo	SUN	[+7 22 AZH=110+7 C 42 H+SER	,
		CAH	.NAD . =	14.45	S 9.81	ń	SWINGE	309.	PHASE	* 70 •	EH15+A	NG.=	1.	CAH+RA	D • •	4457+2	2 KHo	SUN	+2 20 AZH# #3+9 M+SEREN!T	)
		CAH	- NAU -=	14.46	5 46.43	rh .	SNING=	263.	PHASE	71.	EMIS+A	NG.=	1.	CAHORA	D • =	4456.	Z KM.	5 U N	•5 20 AZM= 84•0 H•SFRENIT	)
-		CAH	.NAD.=	71.96	IN 10+32	W	SNING=	347.		90.	EHIS.A	NG . =	3.	CAM+RA	D • =	5108-	2 KM•	SUN	1 • 0 12 AZM=122 • 3	

- L 4 2 164° 70°20H 41°50W 29 °°° °°° °°° °°° °°° 13" 5"23"67 LUNAR ORB LO.FRBOHM B6W NONE 3346K 41825000 136 1°4 13 -°°°

  CAM\*NAD\*\* 72°26H 47°11W 5WING\*\* 313\* PHASE\*\* B1° EHIS\*ANG\*\* 4° CAM\*RAD\*\*\* 5785\*2 KH° 50N AZM\*126\*B

  LAC 2 ANAXIHEHES\*PASCAL ; W>1/2 HUON 5PHERE ; LAC 22 SE\*GERARD\*BUNSEN; ; LAC 15 M\*HUMBOLTIANUM & LAC 42 M\*SERENTTY
- £ 5 2 66° 21.54N 29.26E 35 °°° °°°° 1254UI 8-12-67 LUNAR ORB LO.F.#80HM H&W \* NONE 123K 15375NO 346 1.5 21 °°°°

  CAN.NAD.= 21.43N 29.29E Shing= 252. Phase= 68. Emi5.ang.= 2. Cam.rad.= 1862.2 km. Sun Azm. 97.1

  S. L. Pari of lac 42 m.sehenity.dames & 5. m. Part of lac 43 macrobius.Proclus
- L 5 1 67° 21°87N 29°30E 35 °°° °°°° 1254U7 0-12-67 LUNAN ORB HI° 610HM B6W -- NONE 124K 203279 354 1°0 21 +° 5 Lanonador 21°75N 29°32E - Swingr 259° - Phaser 68° Emisorngor 2° - Camorador 1863°2 km° - Sun Azmr 97°3 5° 6° Pari of Lac 42 moserenity, dawes -- 6 5° W° Pari of Lac 43 macrobios, proclus

- L 5 2 68° 22°23H 29°32E 35 °°° °°° °°° 125412 8°12°67 LUNAR ORB LOFF#80MM BBN 7 YONE 125K 1582500 352 2°2 21 °°87 Cam-Hado# 22°68H 29°35E 5%ING# 258° PHASE# 88° EMIS\*ANG\*# 2° CAM-PAD\*# 1864°2 KH° SUN AZH# 9°°4 5° 6° PART OF LAC 42 H\*SEHENITY,DANES & 5° 8° PART OF LAC 43 MACROBIUS,PROCEUS

# 2ไถผ	HOLL OR LAT+	FONG.	(Imesona in sec		ERA-LENS OR FILM-6 SENSOR Type		M=N.H1 PT. K*KH.	FR. Vert	S. E
	CAM-NAD = 22-39N 2	9.38L F LAC 42	H.SEHENITA DAM	F2 hHY2Es 904	URB HI: 610MM B&W EM15.ANG.= 3. & 5. W. PAR	T OF LAC 43	HACROBIUS PROCLE	)s	
	2 69° 22°58N 29 CAM•NAD•= 22°46N 2	*36E 35 * 7*38F F lac 42	SWING= 259. M.SERENITY.DAW	8-12-67 LUNAR PHA5E= 686 E5	ORB LO.F.ROMM BEW EMIS.ANG. 3. & S. W. PAR	≠ NONE CAM+RAD+≠ T OF LAC 43	125K 1562500 1864+2 KM+ Macrobius.procu	353 2+5 21 SUN AZM# 97+6 JS	
	1 70° 17+3UN 26 CAM+NAD+= 17+1IN 2	1+33E 36 5 (7+13E 1+ F+ PART	9 0000 160349 Swing= 1890 Of Lac 42 No	8-12-67 LUNAF PHASE= 57 SERENITY,DAWES	R ORB HI. SIOMM BEW . EHIS-ANG.= 13.	- NONE Camorad•□	113K 185246 1852+2 KM+	263 11.9 20 SUN AZH= 95.0	
	CAM-HAD-= 17-11N 2 S. E. PART U	27+13E DF LAC 42	MoSCHENITY DAY	1F2	R URB LO.F#80MM B&W EMI5.ANG.# 13. & N. E. PAR	T OF LAC AN	J.CAESAR, SABINE	, JAMSEN	
	2 90° 20°33N 9 CAM.HAD.= 20°19N 5. E. PART 0	7.20E 46 9 9.88E JF LAC 41	*** **** 235526 Sming= 188* APENNINES.HAE!	8=13=67 LUNA Phase= 61 Bus	R ORB LO.F#80MH B&W • EMIS•ANG•# 10• & S• W• PAR	- NONE CAM-RAD-m T OF LAC 42	1859+2 KH+ H+SERENITY+DAWE	282 9+3 14 SUN AZH# 95+8 S	
	2 91 24.66N 9 CAM.HAD.# 24.50N S. E. PART 0	9.23E 46 9.90E DF LAC 41	SWING# 1980 APENNINES.HAEF	8-13-67 LUNA   Phasl= 61 	R ORB LO.F=80MM B&W  • EMIS.ANG.= 10.  & S. W. PAH	= NONE CAM+RAD+= T OF LAC 42	120K 1500000 1859+2 KM+ M.SERENITY:DAWE	284 9.3 19 Sun Azm= 95.9 S	
	1 92 24+99N 5	9.26E 46 9.93E	0.0 0.00 235537 Swing= 192. ΔΡεηνίνε∵ ιΑΕ!	7 6-13-67 LUNA Phase= 61 Mus	R ORB HI, 610HM B6W  • EMIS ANG = 10c  6 S. W. PAR	- NONE CA <sup>M</sup> +RAD++ IT OF LAC 42	121K 198361 1860+2 KM+ M.SERENITY.DAWE	286 9+2 19 SUN A7Mm 96+1 5	<b>-,</b> ,
	2 92 21+44N 5 CAM-NAD+# 24+82N 5+ E- PART 1	9.26E 46 9.93E Uf LAC 41	*** *** 23553 Swing# 192+ APENNINES:HAE	7 8*13*67 LUNA Phase* 61 Mus	R ORB LO.F#80MM B&W • EMIS.ANG.= 10. & 5. W. PAR	TAM-RAD == RT OF LAC 42	E 121K 1512500 1860+2 KM+ M-SERENITY+DAME	ZB6	
ι 5	\$ 93 26+33N	9.29E 46		2 8-13-67 LUNA PHA5E= 61	R ORB H <sup>1</sup> . 610MM B&W . EM15.ANG. = 10. & S. #. PAI	- NON	E 122K 200000 1861•2 KH•	5UN AZHE 96+2	-, a
ι, 5	2 93 21+34N	7.2RE 46	*** *** 23554	2 8-13-57 EUNA	R ORB LO.F*80MM B&W . EMIS.ANG.= 10. & S. W. PA				87

- MIS MAG FR. PHUTU PRIN. PT. ORB GET GMI H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MALIE LONG. ( = LSTIMATED) TYPE Manahi PT. FR. LAP K=KM. VERT 8 . 8

- L 4 1 67 41-80N 51-64E 13 000 0000 C60901 S=15+67 LUNAR ORB HI. 610MH B6W NONE 2976K 48786R9 108 108 25 -090

  LAM.NAD.\* 42-81N 47-79E SWING= 272. PHASE= 70. EMIS.ANG.= 5. CAM.RAD.= 4715.2 KM. SUN AZM=113.6

  EASIEHH PART OF LAC 27 GEBINUS.AFE : LAC 28 GAUSS.HESSA : LAC 14 ENOYMION.S : LAC 43 MACRORIUS.PROCLUS & LAC 44 CLEOMEDES

- L 4 1 74 40+7;N 45+57E 14 \*\*\* \*\*\* 1810J8 5=15=67 L<sup>U</sup>NAR ORB H1+ A10MH B6W NONE 2970K 4868852 119 7+3 25 =+68 CAM+NAD+\* 42+75N 41+06E 5WING= 283+ PHA5E= 71+ EMIS+ANG+\* 6+ CAM+RAD+\* 4709+2 KM+ SUN AZM#113+2 CENTRAL PART OF LAC 27 GEMINUS+AILAS ; NORTHERN PART OF LAC 43 MACROBIUS+ 6 CENTRAL PART OF LAC 14 ENDYMION+STR

HIS HAG FR. PHOTO PRIN. PT. ORB GET GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCREE AT TILT SUN SIDE. SION HOLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AT ANG. ANG. FOO. # # MAIN LUNG. (ImEST(MATED) TYPE Man.MI PT. FR. LAP K=KM. VERT 8 . 8 L 4 1 85 12.79N 23.94E 16 \*\*\* \*\*\* 173950 5\*16\*67 LUNAR ORB H1 \* 610MH BGW \*\* NONE 2717K 4454098 230 \*\* 24 \*\*\*31 CAH-NAD.\*\* 13.88H 25.04E SHING\* 44. PHASE\* 65. EMIS\*ANG.\*\* 2. CAM-RAD.\*\* 4456.2 KM. SUN AZM\* 95.2 EASTERN PART OF LAC 60 J.CAESAR, SABINE, JANSEN : EASTERN PART OF LAC 42 M. SERENITY, DAMES I LAC 78 THEOPHILUS 6 LAC 43 MA L 4 1 86 41-324 31-25E 16 \*\*\* \*\*\* 181300 5\*16\*67 LUNAR ORB HI 610HH B6W - NONE 2956K 48459D2 122 149 24 --66 CAH-HAD-\* 42-86N 27-61E SWING\* 286. PHASE\* 71. EHIS-ANG.\* 5. CAH-RAD-\* 4695-2 KM. SUN AZM#111-7 LAC 26 EUDUXUS.BU ; \_AC 27 GEMINUS.AT ; LAC 13 ARISTOTE.. ; LAC 19 ENDYMION.STRABO & LAC 42 M.SERENITY.DA £ 4 2 101 15-195 3-83E 19 \*\*\* \*\*\* 051444 5-18-67 LUNAR ORB LO.F#80MM 86% - NGNE 2720K 3400F000 150 .5 21 -.\*\* CAM-NAD-= 14:455 3:38E Saing= 336. PHASE= 69. EMIS-ANG.= 1. CAM-RAD-= 4459-2 KM- SUN AZM= 83-4 LAC // PIULMAEUS, : w>1/2 MOON SPHEKE : LAC 41 APENNINES. : LAC 43 MACROBIUS.PROCLUS & LAC 126 CLAVIUS, MAGI L 5 4 66\* 41.54N 29.26E 35 \*\*\* \*\*\* 125401 8-12-67 LUNAR URB LO.F#80MM 86W - NONE 123K 1537500 346 1.5 21 -.\*\* CAM-NAD-= 41.43N 24.79E Saing= 252. PHASE= 68. EMIS.ANG.= 2. CAM-RAD-= 1862.2 KM. SUN AZM= 97.1 S. L. PALT OF LAC 42 M. SERENITY DAWES 6 S. W. PART OF LAC 43 MACROBIUS PROCLUS L 5 1 67 21 67H 29 30E 35 \*\*\* \*\*\* 1254U7 8-12-67 LUNAR ORB H1. 610HH 96H - NONE 124K 203279 354 1.8 21 -. 5 CAN-NAD-# 21-75N 29-32E Swing= 259. PHASE= 68. EMIS-ANG-# 2. CAM-RAD-# 1863-Z KH- SUN AZH# 97-3 S. E. PART OF LAC 42 H. SEKENITY DAMES & S. W. PART OF LAC 43 HACROBIUS PROCLUS L 5 2 67 21 68 29 29E 35 \*\*\* \*\*\* 125407 8-12-67 LUNAR ORB LO.F #80MM RGW - NONE 124K 1550000 350 1.9 21 -. R7 CAM-NAD-# 21-75N 29-32E SWING# 255- PHASE# 68- EMIS-ANG-# 2- CAM-RAD-# 1863-2 KM. SUN AZH# 97-3 5. E. PART OF LAC 42 M.SERENITY.DAWES 6 S\* # PART OF LAC 43 MACROBIUS.PROCLUS L 5 1 68 2 2 4 2 2 4 29 4 3 5 4 4 4 4 4 4 5 12 4 1 2 5 4 1 2 8 - 12 - 67 EUNAR ORB H1 6 6 10MH B6# - NONE 124K 203279 355 2+1 21 - 4 6 CAH-MAD-# 22-L7N 24-35E SHING# 261+ PHASE# 68+ EMIS-ANG-# Z+ CAM-RAD-# 1863-2 KM+ SUN AZMB 97-4
5+ E+ PART OF LAC 42 M+SERENITY DAMES 68+ EMIS-ANG-# Z+ CAM-RAD-# 1863-2 KM+ SUN AZMB 97-4
5- E+ PART OF LAC 42 M+SERENITY DAMES & S. W. PART OF LAC 43 HACROBIUS.PROCLUS 1 5 2 68 22 23N 29 32E 35 000 0000 125412 8 12-67 LUNAR ORB LO F # OBN - NONE 125K 1562500 352 2+2 21 - 87 LAM-NAD-= 22-JHN 29-35E SWING= 258. PHASE= 68. EHIS-ANG.= 2. CAM-RAD-= 1864-2 KH. SIIN AZHE 97.4 5. L. PART OF LAC 42 M. SEREMITY DAWES 5. W. PART OF LAC 43 MACROBIUS, PROCEUS L 5 1 69° 22.57N 29.37E 35 ... ... 125418 8-12-67 EUNAR ORB HI. 610MH 86W - NONE 125K 204918 357 2.4 21 -, 6 LAM-4440 - 22-394 29-38E Shings 262. PHASE 68. EMIS-ANG. 3. CAM-RAD. 1864-2 KM. SUN AZME 97-5 3. L. PART UF LAC 42 M.SEREMITY.DAWES & S. W. PART UF LAC 43 MACROBIUS.PROCLUS L 5 2 67 22.58H 29.36E 35 \*\*\* \*\*\* 125418 8-12-67 LUNAR ORH LO.F. BOHH 66H - NONE 125K 1567500 353 2.5 21 +.87 CAM.NAD. Z2.44UN 29.38E 5WING= 255. PHASE= 68. EHIS.ANG.= 3. CAM.RAD.= 1864.2 KM. 5UN A7H= 97.6

>. L. PART OF LAC 42 M.SERCHITY.DAWES & S. M. PART OF LAC 43 MACROBIUS.PROCLUS

and the management of the agreement of the array of the contraction of

- HIS MAG FR. PHOTO PRIM. PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LATE # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FWO. MAIN LUNG. ( =ESTIMATED) TYPE Menshi PT. FR. LAP K#KM. VERT 8 . 8
- L 4 1 40% 13-28N 70-20E 9 60% 60% 053159 5-13-67 LUNAR URB HI. 610MM 86N NONE 2740K 4491803 245 69 27 -,38 CAM-HAD. 13.9UN 71-57E SWING: 59. PHASE: 61. EHIS.ANG.: 2. CAM-RAD.: 4479.2 KM. 5UN AZM: 96.4 UEGRAUED NEGATIVE ; LAC 63 NEPER.SCHUBERT.N.SMYTHI; LAC 62 M.UNDARUN,S.CRISIUM & LAC 45 PLUTARCH.HAH
- L 4 i 47° 13-32N 62-36E 10 00° 00° 173242 5-13-67 LUNAR ORB HI. 610HM B&W NONE 2738K 4488525 257 1.6 25 -, 2

  CAH-NAD.= 13-880 64.93E SWINGE 71. PHASE= 61. EHIS-ANG.= 4. CAM-RAD.= 4477.2 KM. SUN AZM= 95.9

  CENINAL PART OF LAC 62 H.UNDAHUM:S-CRISIUM : EASTERN PART OF LAC 44 CLEUMEDES. & LAC 80 LANGRENUS.M-FERT.
- L 4 48 44 21N 71 77E 18 000 0000 180618 5 13 67 LUNAR ORB HI 610HH BGW NONE 2983K 4890164 118 109 26 000 CAM-HAD-# 42 84N 67 95E SWING= 292 PHASE# 69 EHIS-ANG-# 50 CAM-RAD-# 472202 KM SUN AZM#114 8 LAC 28 GAUSS-HESS I LAC IS M-HUMBOLTI I LAC 44 CLEOMEDES I LAC 45 PLUTARCH-HABN 6 LAC 29 BRUNG FABRY
- L 4 2 53% 14.815 56.82E 11 •• • • 050229 5-14-67 LUNAR ORB LO.F=80MM 86W NONE 2740K 342500DQ 172 •5 25 -.56 - Camanadam 14.415 56.14E Swing= 338. Phase= 66. Emis.ang.= 1. Cam.rad.= 4479.2 km. Sun aym= 82.4 - Degmaded negative 1 lac 80 langrenus, 1 lac 44 cleomedes, 1 lac 128 riela, watt & lac 64 ne.smythii he
- L 4 1 55 42.07N 65.37E 11 404 4040 060707 5-14-67 LUNAR ORB H1. 610MM 86W NONE 2982K 4888525 102 1.9 26 -.90

  CAM-NAD-# 42.84N 61.25E SWING= 266. PHASE= 69. EMIS.ANG.= 5. CAM-RAD-= 4721.2 KM. SUN AZM=115.1

  LAC 28 GAUSS.HLSS : NURTHERN PART OF LAC 44 CLEUMEDES. : N. E. PART OF LAC 14 ENDYMION.STRABO & LAC 15 M.HUMBOLTIANU
- L 4 2 60\* 13\*585 48\*79E 12 \*\*\* \*\*\* 170326 5-14-67 LUNAR ORB LO\*F#80MM 86W NONE 2738K 34225000 319 \*\*\*70 CAM\*NAD\*# 14\*435 49\*54E SWING# 145\* PHASE# 66\* EMIS\*ANG\*# 2\*\*\*\* CAM\*RAD\*# 4477\*2 KM\*\*\*\* SUN AZM# 83\*6 LAC 79 COLUMBU\*NE 1 W>1/2 HOON SPHERE: LAC 27 GEMINUS\*AT: LAC 44 CLEOMEDES\*H\*CRIS\*\*\* & LAC 114 RHEITA\*, JANSS

HIS HAG FR.PHUTO PRIN.PT. ORB GET GHT H-DA+TR SION RULL OR LAT. # TIMES-HR M SEC CAMENA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. MAIN LUNG. (IMESTIMATED) SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FND. TYPE # M=N+HI PT. FR. LAP L 4 1 62 42+37N 59+16E 12 +\*\* \*\*\* 180759 5-14-67 LUNAR ORB H1+ 610HM RGW - NONE 2979k 4883607 95 2\*0 25 --\*\* CAH+NAD+# 42+81N 54+5ZE SWING# 26U+ PHASE 70+ EHIS+ANG+# 5. CAH+RAD+# 4718+2 KH+ SUN A7H#115+0 LAC 28 GLUSS, MESS : LAC 27 GEMINUS, AT : LAC 14 ENDYMION, S : LAC 15 M. HUMBOLTIANUM

L 4 1 67 41.000H 51.64E 13 000 0000 5-15-67 LUNAR URB HI. 610MM B&W - NONE 2976K 48786HY 108 1.8 25 -.90 CAM-NAU = 42-81N 47-79E SWING= 272+ PHASE= 70+ EMIS-ANG-= 5+ CAM-RAD+# 4715+2 KM+ SUN AZM#113+6 EASTERN PART UP LAC 27 GEMINUS, ATL 1 LAC 28 GAUSS, MESSA 1 LAC 14 ENDYMION, S ; LAC 43 MACRORIUS, PROCLUS & LAC 44 CLEOMEDES

L 4 2 735 12.540 37.59g 14 \*\*\* \*\*\*\* 173646 5=15=67 LUNAR ORB LO.F=BOHM B&W CAM+HAD+= 13+82N 38+33E SWING= 23+ PHASE= 64+ EMIS+ANG+= 2+ CAM+RAD+= 4466+2 KM+ SUN A7H# 95+4 \* NONE 2727K 34087500 209 .9 25 .... DEGRADED NEGALIVE : LAC 61 TARUNTIUS LYELL | D>1/2 MOON SPHERE & LAC 114 RHETTA JANS

86 41.02N 31.24E 16 ... ++++ 18130G 5-16-67 LUNAR ORB LO.F=80MM BGW - NONE 2956K 36950000 172 1.9 24 -.90 CAH+NAD+# 42+8GH 27+61E SHING# 286# PHASE# 71+ EHIS+ANG+# 5+ CAH+RAD+# 4695+2 KH+ SUN AZH#111+7 LAC 26 EUDOXUS, BU | #>1/2 MOUR SPHERE : LAC 16 | LAC 5 PETERMANN, HAYN & LAC 44 CLEOMEDES, H.C

L 4 2 98 40.97N 18.53E 18 \*\*\* \*\*\* 181626 5=17=67 LUNAR ORB LO.F#ARMM ABW - NONE 2938K 36725000 118 2.2 23 -.27 CAM-HAD-= 92.88N 14.21E SWING= 282. PHASE= 72. EMIS-ANG.= 6. CAM-RAD-= 4 - 7 KM. SUN AZM=111.3 LAC 26 EUDUNUS.BU ; 6>1/2 MOON SPHERE ; LAC 44 CLEOMEDES. ; LAC 78 THEOPHILUS.KANT & LAC I N.POLE NEARSID

L 4 1 177 38.81N 67.86E 31 ... 094528 5-24-67 LUNAR ORB HI. 610HH B&W CAM+NAD+= 33.96H 99.33E SWING+ 282. PHASE= 108. EMIS-ANG.= 33. \* NONE 5492K 9003279 290 7.6 15 +... LAC 28 GAUSS.MESS : WI/4 MUONS SPHERE : LAC 3 PHILOLAUS.B ! LAC 4 METON, DESITTER CAM+RAD+= 7231+2 KM: SUN AZM=258+7 6 LAC 44 CLEDMEDES.M.C

L 4 2 184 35-185 69-32E 33 \*\*\* \*\*\*\* 013032 5-25-67 LUNAR ORB 10-F=80MM R6W - NONE 5790K 72374999 259 6+6 7 -... LAC 115 FURNEHIUS : WOON SPHERE : LAC 114 RHEITA, JA : LAC 61 TARUNTIUS, LYELL

L 4 2 185+ 35+275 69+30E 33 64+ \*\*\* 013036 5-25-67 LUNAR ORB LO.F=HOMM BOW - NONE 5790K 72374999 258 6+6 7 -1\*\* CAH, NAD. # 34. JSS 97. SZE SWING# 269. PHASE# 113. EMIS. ANG. # 30. CAH. RAD. # 7529.2 KM. SUN AZH#275.9 LAC 115 FUNNERIUS : WOLL STALE : LAC 114 RHEITA . JA : LAC 44 CLEDHEDES . M. CRIS. 6 LAC 129 M. AUSTRALE . L

TOTAL PHOTOS IN THIS GROUP # 17

MIS MAG FR. PHUTU PRIN. PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-FXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAI. FIMES-HR M SEC SENSUR AND FILTER TUDE PRING AZ ANG. ANG. PHD. HAIN LUNG. ( =ESTIMATED) TYPE M=NaMI PT. FR. LAP K=KH. VERT 8 8

- L 4 1 17 14-24N 90-44E 6 4.0 4.0 172957 5-11-67 LUNAR ORB HI. 610MM R6W NONE 2739K 4490164 290 -7 29 -.43 LAM-HAD-= 13-89N 91-45E SWING= 1040 PHASE= 600 EMIS-ANG.= 20 CAM-RAD== 447802 KH0 SUN AZM= 97.05 LAC 64 NE-5MYTHII HERTZ : LAC 46 JOLIOT MAXWELL : LAC 63 NEPER, SCHUBERT, N. SMYTHI 6 LAC 45 PLUTARCH, HAH
- L 4 I 18 14-63N 90-47E 6 \*\*\* \*\*\* 173007 5-11-67 LUNAR ORB HI\* 610HM B6W \*\* NONE 2740K 4491BE3 301 \*7 28 \*\*\*90 CAM\*HAD\*\*\* 14-04N 91-46E SWING\*\* 116\*\* PHASE\*\* 60\*\* EHIS\*ANG\*\*\* 2\*\*\* CAM\*RAD\*\*\* 4479\*2 KH\*\* SUN AZH\*\* 97\*7 LAC 64 NE\*SHYTHI HERIZ F LAC 46 JOLIOT MAXWELL F LAC 63 NEPER\*SCHUBERT\*N\*SHYTHI & LAC 45 PLUTARCH\*HAH

- E 4 1 35% 13.63N 76.71E 8 \*\*\* \*\*\* 173116 5=12-67 LUNAR ORB HI. 610MM B6W = NONE 2740K 4491803 260 .9 27 -.35 CAM.NAD.= 13.88N 78.20E SWINGW 74. PHASEW 61. EMIS.ANG.W 2. CAM.RAD.W 4479.2 KM. SUN AZHW 96.7 DEGRADED NEGATIVE I LAC 63 NEPER.SCHUBERT.NI WESTERN PART OF LAC 45 PEUTARCH.RAH 6 N. W. PART OF LAC 81 ANSGARIUS.W
- L 4 | 36 41.65N 85.89E 8 \*\*\* \*\*\* 180452 5-12-67 LUNAR ORB HI. 6LOMM BBN NONE 2982K 4888525 107 2-1 27 -.90 Canamad.= 42.63N 81.30E Swing= 271. Phase= 68. Emis.ang.= 6. Camarad.= 4721.2 km. sun azm=116.6 Lac 29 Bhunu fabh i northern Part of Lac 45 plutarch.h i eastehn part of lac 15 m.humpoltianum & Lac 16
- L 4 L 40\$ 13.28N 74.20E 9 \*\*\* \*\*\* 053159 5\*13\*67 LUNAR ORB HI. 610MH B&N \*\* NONE 2740K 4491803 245 \*9 27 \*\*\*\*\* CAM-NAD-\*\* 13.90N 71.57E SHING\*\* 59. PHASE\*\* 61. EMIS.ANG.\*\* 2. CAM-RAD.\*\* 4479.2 KM. SUN AZM\*\* 96.4 DEGMADED NEGATIVE I LAC 63 MEPER.SCHUBERT.H.SMYTHI: LAC 62 H.UNDARUM.S.CRISIUM & LAC 45 PLUTARCH.HAH
- 4 1 415 42-260 BG-11E 9 \*\*\* \*\*\* 060535 5-13-67 LUNAR ORB HI, 610MM B6W NONE 2984K 4891803 LO9 2-5 28 --90 Can-Nad-= 42-350 74-64E Swing= 273- Phase= 69- Emis-ang== 7- Cam-Rad-= 4723-2 km- 5un a7m=116-7 Degraded negative ; lac 28 gauss,messala,zen ; lac 29 bruno fabry & Eastern part of lac 15 m-humpoltianum
- L 4 1 48 41-21N 71-77E 10 44 440 180618 5-13-67 LUNAR DRB HI. 610MM RGW NONE 2983K 4890164 118 1-9 26 --\*\*

  CAM-NAD-\* 42-04N 67-95E SHINGE 282- PHASE 69- EMIS-ANG-\* 5- CAM-RAD-\* 4722-2 KM- SUN AZM=114-8

  LAC 28 GAUSS-NESS: LAC 15 M-HUMBOLTI : LAC 44 CLEUMEDES-: LAC 45 PLUTARCH-HAHN 6 LAC 29 BRUNG FABRY

5 !	a I O N	# KULL	HAIN B	LAT.	LUNG.	u	GET TIMES-HR (**ESTIM)	M SEC ATED)		SENSOR TYPE		XPOSURE AND FILTER	ALTE SE TUDE Man.H: K=KM.	PRIN.		L T SUN ST ANG. ANG. FR. VERT	
_	LAC	28 6	AUSS, MES	5 1	#1/4 H	UONS	SPHERE 1	LAC 3	PHILOLAUS ## 108.	ORB HI+ 610MH EMIS+ANG+# 33 LAC 4 METON+0		- NONE CAM+RAD+# R	5492K 7231•2	KH.	SUN	7.6 15 AZM=258.7 CLEONE FS.H	
_		CAM . N	. ذ ف ≃ • نا۵ا	985 I	04.146		Swings 2 5 w>1/2 H	75.	Buses 110	ORB LO.F.BOMM EMIS-ANG.= 23 FRACASTORIUS.S	3.	- NONE CAM-PAD-= LAC 131 PRAN	7535.2	2449999 KH+ ANK &	SUN	AZH=271+9	•

TOTAL PHOTOS IN THIS GROUP . .

ALTI SCALE AT TILT SUN SIDE. GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE MIS MAG ER.PHOTO PRIN.PT. URB AND FILTER TUDE PRIN. AZ ANG. ANG. FRO. SENSOR TIMES-HR M SEC SION HOLL OR LATA LAP M=N.MI PT. FR. TYPE [ = ESTIMATED) MAIN LONG. VERT 8 . 8 K=KH.

- L 4 1 20 15-42N 90-54E 6 ... ... 173027 5-11-67 LUNAR ORB HI. 610MM B&W -- NONE 2741K 4493443 319 .9 28 --,90

  CAM-NAD-= 14-34N 91-49E SWING= 134. PHASE= 60. EM15-ANG-= 2. CAM-RAD-= 4480-2 KM- SUN AZM= 98-2

  LAC 64 NL-SMTTHII; LAC 46 JOLIUT MAXWELL : LAC 63 NEPER-SCHUBERT,N-SMYTHI; LAC 45 PLUTARCHOH & LAC 82 SE-M-SMYTH
- L 5 2 181 41.96N 149.41E 74 \*\*\* \*\*\* \*\*\* 175642 8\*17-67 LUNAR ORB LO.F#80MM B6W NONE 1181K 14762500 279 23.4 11 -\*\*\*

  LAM.HAD.# 41.61N 134.27E SWING# 90. PHASE# 121. EM15.ANG.# 42. CAM.RAD.# 2920.2 KH. SUN AZM#261.6

  LAL 30 E.SZILARO | W1/4 MUONS SPHERE | LAC 47 OLCOTI | LAC 16 & LAC 29 BRUNO FABRY

TOTAL PHOTOS IN THIS GROUP = 4

MIS MAG FR.PHUID PRIN.PT. URB

GET

THESE THU SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN: TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS . = DEGRADED PHOTOS. SE ALHOST UNUSABLE PHOTOS, (-),(+),(), OR(U) = NO INFO = APPROXIMATELY NEXT TO MAGN. BEBRACKET MOUNTED! G. CAM. ON GROUND CAMENA-LENS AS FOLLOWS: SW.A. . SUPER HIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HSB# HASSELBLAD: MAUR# MAUREM; ZP, ZB, ZS # ZEISS LENS(PLANAR, BIOGEN, SONAR); FOCAL LENGTH, MM; & MAX, F. OPENING 100 AS EXPOS SPEED # 1/1000 FOR \*\* TWO ZEROS: FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LXXXX ON ORIGINES. AT PP IF ALT NOT 0.0

GHT H-DA-YR CAMERA-LENS OR SION RULL FILH-EXPOSURE UR LAT. ALTI SCALE AT TILT SUN SIDE. TIMES-HR M SEC SENSOR MAIN AND FILTER TUDE PRIN. AZ ANG. ANG. PHD. LONG. ( =ESTIMATED) TYPE M=N.H1 PT. FR. LAP K=KH. L 4 1 146\* 2+79N 136+09F 26 \*\*\* \*\*\* 233025 5-21-67 LUNAR ORB H1. 610MM BEW VERT 8 . 8 CAH. NAD. = .16N 134.86E Sw1NG= 45. NONE 6148K 10078688 25 PHASE= 109. EMIS.ANG.= 4. .8 .. LAC 66 MENUELELY : WIF4 HUONS SPHERE : LAC 30 E.SZILARD : LAC 47 OLCOTT CAM-RAD. 7887.2 KH. SUN AZM#271+7 1 4 1 147 2 20 9N 136 14E 26 000 0000 233057 5-21-67 LUNAR ORB HI. 610MM BGW & TERMINATOR CAM-NAD-= .UUN 134.87E SWING= 51. NONE 6149K 10080328 31 PHASE= 109. EHIS.ANG.= 3. •7 \*\* LAC 66 MENUELELY : 3>1/2 HOOM SPHERE : LAC 30 E-SZILAND : LAC 47 OLCOTT CAM . RAD . m 7888.2 KM. SUN AZHEZ71.4 L 5 | 158 37.63N 126.77E 64 ... 101006 8-16-67 LUNAR ORB HI, 610HM B&W & TERMINATOR CAM-NAD-= 37-69N 152-57E NONE 1233K 2021311 278 24.2 11 SWING= 89. PHASE # 124. EMIS.ANG. # 44. EASIERN PART OF LAC 30 E.SZILARD WELLS CAM+RAD+# 2972+2 KH+ I NORTHERN PART OF LAC 47 OLCOTT SUN AZM=263.2

6 N. W. PART OF LAC 48 W.M.MOSCOVIE L 5 1 163 38.04N 121.22E 67 ... ... 194258 8-16-67 LUNAR ORB HI. 610MM 86W CAM-NAD .= 37.62N 147.19E - NONE 1231K 2018033 279 2454 12 S#1NG= 89. PHASE 123. EMIS.ANG. 45. CENTRAL PART OF LAC 30 E+541LARD WELLS CAM . RAD . = 2970 . 2 KH . SUN AZM=262.7 & NORTHERN PART OF LAC 47 OLCOTT

L 5 2 181 41.96N 109.41F 74 \*\*\* \*\*\* 175642 8=17=67 LUNAR ORB LO.F=80MM 86W CAM-NAD-= 41-01N 134-27E NONE 1181K 14762500 279 23-4 11 Sw1116= 90. PHASE 121. EHIS.ANG. 42. EAC 30 E.SCILARD : WI/4 MOONS SPHERE : LAC 47 OLCOTT : LAC 16 CAM.RAD. = 2920.2 KM. 5UN AZH#261.6 & LAC 29 BRUNG FABRY

TOTAL PHOTOS IN THIS GROUP #

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-5

を表現しているというないできない。これではないのできないできます。 では、これでは、これではないできないできます。

THESE IND SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: - = DEGRADED PHOTOS. S# ALMOST UNUSABLE PHOTOS.

TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-).(\*).( ), ( ), ( ), ( ) NO (U) = NO INFO | W = APPROXIMATELY | NEXT TO MAGH, H=BRACKET | MOUNTED; G= CAM, ON GROUND

CAMERA-LENS AS FOLLOWS: | SW.A. M SUPER WIDE ANGLE LENS! EKTR#EKTAR Z.B LENS!

H5B= HASSELBLADI | HAURE MAURER: ZP.ZB.ZS = ZEISS LENS!PLANAR.BIDGEN,SONAR)! FOCAL LENGTH(MM) & MAX.F-OP!NING

10\* AS EXPOS SPEŁD = 1/1000 10R \*\* TWO ZEROS)

FUR LUNAR ORBITER K AFIER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE 15 THE XXX OF L/XXX ON URIG.REG. AT PP TF ALT NOT 0.0

- HIS MAG FRIPHOTO PRINIPT. ORB GET GHT MaDA-YR CAHERA-LENS OR FILM-FXPOSURF ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. TINES-HR H SEC SENSOR a AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN ( = ESTIMATED) TYPE LUNG. **HENOMI PT.** FR. LAP # K=KM. VERT 8. 9

- L 5 | 158 3/-83N 126-77E 64 \*\*\* \*\*\* 101086 S=16-67 LUNAR ORB HI. 610MM B6W NONE [233K 2021311 27R 74-2 11 -.\*\* LAM-NJO.= 37-69N 152-57E SWINGW 89\* PHASE= 124\* EMIS\*ANG.# 44\* CAM\*RAD.# 7972-2 KH\* SUN AZH#263-2 EASTERN PART OF LAC 3U E-52(LARD WELLS I NORTHERN PART OF LAC 47 OLCOTT & N. W. PART OF LAC 48 W-H-HO5COVIE

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THESE THE SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN! ... . DEGRADED PHOTOS. . . ALMOST UNUSARLE PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VENTICAL TO CAMERA AXIS (-).(+). (+). OR(J) = NO INFO = APPROXIMATELY NEXT TO MAGH. B=BRACKET MOUNTED: G= CAM. ON GROUND CAHERA-LENS AS FOLLOWS! SW.A. # SUPER WIDE ANGLE LENS! EKTRUEKTAR 2.8 LENS: HSB# HASSELBLAU! MAURE MAURER: 2P. 28. 25 % ZEISS LENSTPLANZH, BIOGEN, SONAR;; FOCAL LENGTHIMM, A MAX.F. OPF TING THE AS EXPUS SPEED = 1/1000 FOR \*\* TWO ZEROSE FOR LUNAR DRAITER & AFTER ALTITUDE EQUALS KILDNETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT 0.0

ALT! SCALE AT TILT SUN SIDE. HIS MAG FR.PHOTO PRIN.PT. ORB GET GHT M-DA-YR FILM-FXPOSURF CAMPRA-LENS OR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SION ROLE OR LATE # TIMES-HR M SEC SENSOR LUNG. (I=ESTIMATED) TYPE HENAHI PT. FR. LAP MAIN K=KH. VERT 8. 2

- NONE 1381K 17262500 10 6.8 19 1 1 2 115 2.925 145.26E 69 \*\*\* \*\*\* 000555 8-25-66 | UNAR ORS LO.F=80HM 864 CAM.NAD.= 8.275 144.23E Swings 4. PHASE 70. EMIS.ANG. 12. CAH.RAD. 3120+2 KH+ SUN A7H#272+6 LAC 64 DELLINGER : LAC 66 MENDELELV : LAC 48 M.M.MOSCOV : LAC 85 KEELER & LAC 67 SPENCER
- 1 4 1 995 3-51N 179-92E 18 \*\*\* \*\*\*\* 232421 5-17-67 LUNAR ORB H1. 610MM B6W - NONE 6142K IBN68852 293 2+4 \*\* CAM+RAD+# 7881+2 KM+ SUN AZM#271+5 CAM-NAD-= -11N 172-38W 511116r 294. PHASE 115. EMISOANG. 11. & EAC 49 E.M. MOSCOVIEN DEGRADED NEGATIVE: LAC 68 SHARONDY I DI/4 MOONS SPHERE I LAC 32 HUTTUN
- NONE 1245K 2840984 281 25+8 11 79 38.664 167.55E 39 \*\*\* \*\*\* 023432 8-13-67 LUNAN ORB HI. 610HM B6W CAM . NAD . = 37 . /3N 163 . 69W SWING 89. PHASE= 128. EMIS.ANG.= 48. CAH+RAD+= 2984+2 KH+ SUN AZM=263+3 N. E. PART OF LAC 49 E.M.MOSCOV & No. W. PART OF LAC 50 HORSE CENTRAL PART OF LAC 32 HUTTON
- 85 38.73N 158.84E 44 ... ... 182940 8-13-67 LUNAR DRB HI. 610MH BEW - NONE 1239K 2031148 281 25+8 11 CAH+NAD+= 37.81N 172.42W SHING 89. PHASE 127. EMISOANG. 48. CAH+RAD+= 2978+2 KH+ SUN AZH=262+9 I EASTERN PART OF LAC 31 WIENER & MORTHERN PART OF LAC 49 E.M. HOSCOVIE MESIERN PART OF LAC 32 HUTTON
- NONE 1239K 15487500 281 25+8 11 ++\*\* 85 38.85N 158.87F 44 0.0 0.0 182940 8-13-67 LUNAR OR8 LO.F-80HH 86W CAM-NAD. = 37.800 172.420 Swing = 90. PHASE= 127. EHIS.ANG.= 48. CAH+RAD+= 2978 • 2 KH • SUN AZH=262+9 LAC 32 HUTTUN : WI/4 MUONS 5PHERE : LAC 18 TIKHUY : LAC 50 MORSE 6 LAC 17
- NONE 1237K 2027869 280 25.4 11 L 5 & 1u3 38.72N 150.81E 49 0.0 0.0 102451 8-14-67 LUNAR ORB H1. 610HN 86W CAM-RAD . 2976 . 2 KH. SUN AZH#262.9 SWING# 90. PHASE= 126. EMIS.ANG.= 47. CAM-NAD-= 37.85N 178.75E N. E. PART OF LAC 48 W.M.MOSCOV & N. W. PART OF LAC 49 E.H.MOSCOVIE EASTERN PART OF LAC 31 WIENER
- L 5 2 103 38-844 150-83E 49 \*\*\* \*\*\*\* 102451 8-14-67 LUNAR ORA LO-F-80MM 86W NONE 1237K 15462500 281 25+4 11 -+\*\* CAM+RAD+m 2976+2 KH+ SUN AZM#262+9 CAN+HAD+# 37+85H 178+75E Swing= 90. PHASE 126. EMIS.ANG. 47. LAC 31 ATENER : WI/4 MOONS SPHERE : LAC 32 HUTTON : LAC 18 TIKHUV 6 LAC 49 E.M.HOSCOVIEN
- L 5 2 124 39 09N 142 80E 54 \*\*\* \*\*\* 022004 8-15-67 LUNAR ORB LO.F=80MM 86# - NONE 1237K 15462500 281 25+0 11 -+\*\* CAM-HAD . 37.82H 170.09E SWING 91. PHASE 125. EMIS-ANG. 46. CAM-RAD-# 2976+2 KH+ SUN AZM#262+9 & LAC 49 E.M. MOSCOVIEN LAC 31 HIEHER 1 WITH MOONS SPHERE : LAC 18 TIKHOV : LAC 32 HUTTON

NONE 1245K 15562500 281 25+8 11

6 LAC 17

THESE THU SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN: . . . DEGRADED PHOTOS. . . . ALMOST UNUSABLE PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS (+).(+).) or(0) = NU INFO W & APPROXIMATELY NEXT TO MAGE. BEBRACKET MOUNTED; GE CAM. ON GROUND CAMERA-LEHS AS FOLLOWS: SN.A. . SUPER NIDE ANGLE LENS! EKTREEKTAR 2.8 LENST HOUR HADSELBLADE HAURER ZP. ZB. ZB. ZEISS LENSTPLANAR BIDGEN, SONAR ): FUCAL LENGTHIMM) & MAX.F-OPENING 16+ AS EXPOS SPEED # 1/1000 (OR +# TWO ZEROS) FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE SE THE XXX OF 1/XXX ON ORIG. NEG. AT PP IF ALT NOT O.D.

MIS TAGE FROM THINGTO URB GET GMT SION ROLL OR LATA # TIMESTHAM SEC # MAIN LUNG. (Imestimated) #	SENSOR	XPOSURE ALTI SCALE AT TILT SUN SIDE, AND FILTER TUDE PRING AZ ANG ANG FHDO HONOMI PTO FRO LAP KEKNO VERT 8,8
L 2	PHASE TO FMISOANGO IL.	** NONE 1453K 2381967 4 16.3 19 CAM-RAD-= 3192+2 KM+ SUN A7M=268-1 6 N. W. PART OF LAC 86 DAEDALUS
L 5 2 53 48-97N 176-11W 29 *** **** 184006  CAM-NAD-= 42-56N 147-00W SWING= 107.  LAC 18 IIKNOV   WI/4 MOONS SPHERE   LAC	PHASE 12A. FMIS.ANG. # 47.	** NONE 1191K 14887500 297 25.6 9 -,** CAM+RAD+# 2930-2 KM+ SUN AZM#261.6 6 EAC 32 HUTTON
L 5 1 79 38.66N 167.55E 39 *** *** D23432 LAM.NAD.= 37.73N 163.64W 5WINGE 89. CENTRAL PART UF LAC 32 HUTTON	PHASE # 128. EHIS.ANG. # 48.	NONE 1245K 2040984 281 25.8 11 CAM.RAD.== 2984.2 KM. SUN=263.3 OSCOV 6 N. W. PART OF LAC 50 MORSE

CAM . RAD . = 2984 . Z KM . SUN A7H=263+3 LAC 32 HUTTON : WINE MOONS SPHERE : LAC 33 SCHNELLER : L/C 18 TIKHOV 6 LAC 19 CARNOT ROWLAN L 5 2 85 38+85N 158+87E 44 \*\*\* \*\*\* 182940 8-13-67 LUNAR OR! LO-F=80HM 86W NONE 1239K 15487500 281 25.8 11 -.\*\* CAM-NAD-= 37.80N 172.42m SWING 90. PHASE= 127. EMIS.ANG. 48. CAH+RAD+# 2978+2 KH+ SUN A7M#262+9 LAC 32 HUTTON : WI/4 MOONS SPHERE : LAC 18 TIKHOV : LAC 50 MORSE

PHASE 128. EHIS.ANG. 48.

L 5 2 79 36-7- 167-58E 39 \*\*\* \*\*\*\* 023432 8-13-67 LUNAN ORB LO.F=80MM R6W

SWING# 89.

TUTAL PHUTOS IN THIS GROUP .

CAN-HAD. - 37.72N 163.64W

IHESE IND SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS, \$# ALMOST UNUSABLE PHOTOS, ILLI ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(=).(+).( 1). OH(U) # NU INFO # # APPROXIMATELY NEXT TO MAGM, B#BRACKET MOUNTED; G# CAM, ON GROUND

CAMERA-LENS AS FOLLOWS: SW.A. # SUPER WIDE ANGLE LENS; EKTR\_EKTAR 2.8 LENS;

HSU# HASSELBLAD; MAURE MAURER: ZP,ZB,ZS # ZEISS LENS(PLANAR,BIOGEN,SONAR); FOCAL LENGTHIMM; MAX.F=OPENING

IU. AS EXPOS SPEED # 1/1000 fur \*# TWO ZEROS)

FUH LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1/XXX ON ORIG. MEG. AT PP IF ALT NOT O.O

HIS HAG FR. PHUIU PRIN. PI. URB GET GMT M\_DA=YR CAMERA-LENS OR FILMLEXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HULL UH LAT. TIMES-HR M SEC SENSOR AND FILTER PRIN. AZ ANG. ANG. FAD. HAIN LUNG ( TEESTIMATED) TYPE M=H+HI PT. FR. LAP K=KH+ VERT я, я

- L 5 1 39 38.71N 159.46W 19 8.0 08.0 105251 8-10-67 LUNAR ORB HI, 610MH 86W NONE 1752K 2052459 283 26.8 10 -... LAM.NAD.= 37.14N 128.86W SWING= 89. PHASE= 131. EMIS.ANG.= 51. CAM.RAD.= 2991-2 KM. SUN AZM=263.6 EASTERN PART OF LAC 33 SCHNELLER : WESTERN PART OF LAC 34 FOWLER & NORTHERN PART OF LAC 51 JACKSON
- L 5 2 53 48+97N 176+1EW 29 \*\*\* \*\*\* 1840U6 8\*\*L1-67 LUNAR ORB LO+F=80HH BGW NONE 1191K 148875DO 297 25+6 9 --\*\*

  CAM+NAD+# 42+56B 147+UON SWING= 107+ PHASE= 126+ EHIS+ANG+# 47+ CAM+RAD+# 2930+2 KM+ SUN AZM=261+6

  EAC 18 TIKHOV I WI/4 HUON5 SPHERE I LAC 50 MORSE : LAC 51 JACKSON & LAC 32 HUTTON

TOTAL PHOTOS IN THIS GROUP # 2

ALTI SCALE AT TILT SUN SIDE, FILH-EXPOSURE GHT M-DA-YR CAMERA-LENS OR HIS HAG FR. PHOTO PRIN. PT. ORB GET AND FILTER THOE PRING AZ ANG. ANG. FAD. SENSOR SION ROLL OR LAT. TIMES-HR M SEC MEN.HI PT. FR. LAP TYPE ( I BESTIMATED) LUNG. MAIN VERT K=KH. NONE 5015K 8221311 281 8+7 8

- \_ 5 1 28 26•39N 133•19N 8 ••• •••• 145230 8=08-67 LUNAR URB HI• 610MM 86N = NONE 5015K 8221311 281 8•7 4 4. Cam•nad•= 24•16N 103•16∱ 511NG= 90• Phase= 118• Emis•ang•= 36• Cam•rad•= 6754•2 km• Sun azm=267•7 Lac 52 Juule ۥma 1 №174 Muons SPHERE 1 Lac 19 Carnot Row 1 Lac 20 Coulomb 6 tac 89 S•E•Herizspru

- L 5 2 31 28-04N L35-71W 11 \*\*\* \*\*\* 073219 8-09-67 LUNAR ORB LO-F#80MM R&W \*\* NONE 1364K 17050000 ZRO 21-8 Z \*\*\*

  CAM-NAD-# 26-12N 113-59W SHINGE 890 PHASEE 1300 EMISONGO 4?- CAM-RADO 3103-2 KM\* SUN AZH#270-8

  LAC 52 JOULE 1-MA I WI/4 MOONS SPHERE I LUNAR WE HEMISPHE I LAC 122 LANGMUIR STETSON & LAC 121 APOLLO
- L 5 1 32% 24.01N 138-12W 13 000 0000 155741 8-09-67 LUNAR ORB H1. 610MM 86W NONE 1397K 22901A4 280 21.3 1 --.06

  CAM-NAC-= 22.61N 116-73W SWING= 90. PHASE= 130. EM15.ANG.= 41. CAM-RAD.= 3136-2 KM. SUN AZM=271-2

  DEGNADED NEGATIVE I LAC 52 JOULE E.MACH & 1.AC 70 N.W.HERT7SPRUNG.ARTEM

TOTAL PHOTOS IN THIS GROUP = 7

PAGE 10A

Sm ALHOST UNUSABLE PHOTOS. THESE THU SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: . # DEGRADED PHUTOS. TILL ANGLES: AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS 👚 📦 🗷 АРР<sup>R</sup>UXIMATELY — NEXT TO HAGH: ВШВ<sup>R</sup>ACKET - MUUNTED: GШ САН. ОN G<sup>R</sup>OUND  $\{-\}, \{+\}, \{-\}, UR(U) = NO INFO$ SWAA = SUPER WIDE ANGLE LENS: EKTROEKTAR Z.8 LENS: CAMERA-LENS AS FOLLOWS: MAURE MAURER: ZP, ZB, ZS = ZEISS LENS(PLANAR, HIOGEN, SONAR); FOCAL LENGTH (MM) & MAX.F-OPENING HSH = HASSELBLAU! TOP AS EXPOS SPEED # 1/1000 (OR ## TWO ZEROS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG. NEG. AT PP IF ALT NOT O. O

ALTI SCALE AT TILT SUN SIDE. CAMERA-LENS OR FILH\_EXPOSURE MIS MAG FRIPHUID PRINIPIL ORB GE T GMT M-DA-YR PRIN. AZ ANG. ANG. FWD. UR TIMES-HR M SEC SENSOR AND FILTER TUDE LAI. SJUN KULL H=N.M1 PT. FR. LAP TYPE (I mESTIMATED) MAIN LUNG. VERT K#KH. S . R

- NONE 5009k 8211475 281 8+9 8 5 \*\*\* \*\*\* 135051 8-07-67 | UNAR ORB HI. 610MM 86W 240 26.548 128.174 CAM . RAD . = PHASE # 119. EHIS.ANG. = 37. 6748.2 KM. SUN AZM=267.8 CAM-NAD = 24.010 89.35# SWING 90. & LAC BY S.E. HERTZS : WIN4 HOONS SPHERE : LAC 135 PINGRE N. HAUSEN : LAC 20 COULOMB LAC 53 UHM FERSHAN
- A.B 8 -, .. NONE 5009K 62612499 282 5 \*\*\* \*\*\* 135051 8-07-67 LUNAR ORB LU.F#80MM B6# 24 26.968 120.088 SUN A7M=267.8 SWING# 91. PHASE = 119. EMIS.ANG. = 37. CAM «RAD » » 6748+2 KH+ CAN-NAD. = 24.018 89.35W LAC 53 UHM FERSMA : LUNAR DISC FARSID : LUNAR No HEMISPHE & LIMB OR HORIZON

TOTAL PHOTOS IN THIS GROUP .

HIS HAG FR. PHOTO PRIN. PT. DRA GET GHT M-UA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. (IEESTIMATED) TYPE M=N-MI PI. FR. LAP K = K H . VERT 8. 8

- L 4 1 196 12-86N 94-86N 34 \*\*\* \*\*\* 180431 5-25-67 LUNAR ORB HI. 610MM 86W -- NONE 2675K 4385246 224 \*9 15 --25

  CAN-MAD-= 13-88N 93-82N SWING= 38. PHASE= 73. EMIS-ANG-0 2. CAM-RAD-- 4414-2 KM. SUN AZM- 92-7

  EASIEMN PART UF LAC 72 ELVEY NOBEL : EASTERN PART UF LAC 54 BELB LAUE : LAC 90 LOWELL 6 LAC 37 STRUVE-DALTON

TOTAL PHOTOS IN INTS GROUP = 4

THE REPORT OF THE PROPERTY OF

HIS MAG FR. PHUIU PRIN. PT. URB GET GMT H\_DA-YR CAMERA-LENS OR FILM\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL UK LAT. TIMES-HH M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FHD. MAIN LUNG. ( = LST: MATED) TYPE HENOMI PT. FR. LAP K=KH. VERT 8. 8

- L 4 2 160 42+795 54+520 29 \*\*\* \*\*\* 045917 5=23-67 LUHAR ORB LO:F=80HH 860 \*\*\* NANE 3012K 37658000 99 4+8 17 --\*\*

  CAM+NAD+= 42+035 65+800 541NG= 296\* PHASE= 85\* EM15\*ANG\*= 13\* CAM+RAD\*\* 4751\*2 KH\* SUN AZM\* 72+3

  LAC 110 5CH1CKARD\*LACROIX : @1/4 HOONS SPHERE 1 LAC 144 SCGTT\*S\*POLE NEARSIDE >6 LAC 55 VASCODEGAMMA
- L 4 2 167 42-015 60-70W 30 \*\*\* \*\*\* 170012 5-23-67 LUNAR ORB LO.F=80MM BGW NONE 3009K 37612500 95 5-0 17 -.\*\*

  CAM-NAD-= 41-825 72-48W SWING= 292 PHASE= 86 EMIS-ANG.= 14 CAM-RAD-= 4748-2 KM SUN AZM= 72-6

  LAC 110 SCHICKARU-LACROIX : @>1/2 MOON SPHERE : LAC 144 SCOTT,S-POLE NEARSIDE >6 LAC 55 VASCODEGAMMA
- L 4 1 168 14-455 68-18W 30 \*\*\* \*\*\* 173229 5-23-67 LUNAR DRB HI. 610MM B&W -- NONE 2722K 4462295 103 .9 17 -.47

  CAM-HAD-\* 14-145 64-56W -- SWING\*\* 28B+ PHASE\*\* 76+ EMIS-ANG\*\*\* 2+ CAM-RAD\*\*\* 4461-2 KM+ SUN AZM\*\* 84-99

  LAC 74 GMINALDI:BILLY | LAC 73 MICCIOLI,NE-URIENTAL | LAC 91 EICHSTADT,SE-ORIFNTAL & LAC 92 BYRGIUS-DAR\*\*

- L 4 i 174 l3-37n 76-00% 31 \*\*\* \*\*\* 000 06031F 5-24-67 EUNAR ORB H1. 610MH R6W NDNE 2673K 43819A7 255 1-3 16 --.16

  CAM-NAD-- IJ-91N 73-95N SWINGE 69. PHASE= 71. EMIS-ANG.- 3. CAM-RAD-- 4417-2 KH. SUN AZM- 93-0

  EASIERN PART OF LAC 55 VASCODEGAM | EASIERN PART OF LAC 37 STRUVE-DAL | LAC 73 RICCIOLI.NE-ORIENT & LAC 38 SELEUCUS-SCHR
- L 4 | 181 | 13-095 | UZ-18<sup>M</sup> | 32 | 000 | 0000 | 173307 | 5-24-67 | LUNAR ORB HI, 610HH B6W NONE 27.4K | 4465574 | 26 | 19 | 15 | -,49 | CAM-NAD-= 14-405 | BZ-86W | 5WING= 212- PHASE= 76- EMIS-ANG-= 2- CAM-RAD-= 4463.Z KH- 5UN A7H= 85.7 | CENTRAL PART OF LAC 91 E1CHSTADT.SE-ORIE & S. W. PART OF LAC 55 VASCODESAMMA.HED
- t 4 1 182 15×26N 81×41W 32 \*\*\* \*\*\* 180342 5-24-67 tunar orb hi 610HM r6W None 2674K 4383607 329 1×0 16 --.46 Cam·NaD·= 13×88H 80×57W Swing= 143× Pha5t≈ 72× Emis•ang·= 3\* Cam·RaD·= 4413×2 km\* Sin azm= 93×7 CEMIMAL FAMI OF LAC 55 VASCODEGAM : CENIMAL PART OF LAC 37 SIRUVE•Dat ; Lac 73 Riccioli, Ne•orient & Lac 22 Se•Gerard•Bun

ORICHAYL PAGE IS POOR

6 LAC 73 RICCIOLI,NE.O

HIS MAG FR.PHUTO PR SION HOLL OR LAT. # # HAIN	#	TIMES-HR H SEC		ERA-LENS OR FI Sensor Type	LM∼EXPOSURE AND filtrr	ALTI SCALE AT TUDE PRIN. / HWN.HI PT. KWKH.	TILT SUN : AZ ANG. ANG. FR. VERT	• •
L 4 '2 182 15.26N CAM.NAD.= 13.88N LAC 55 VASCOULGAM :	80.57K	5w186= 143.	PHASE= 72.	EHIS.ANG.= 3.	CAH.RAD.=	4413.2 KH.	SUN A7Mm 93.7	
£ 4 2 186 42.265						3006K 37575000		

- LAC 109 PIAZZI.V.BOUVARD 1 9>1/2 HOON SPHERE I LAC 144 SCOTT+S.POLE NEARSIDE >6 LAC 72 ELVEY NOBEL £ 4 1 187 14.975 89.36W 33 ... \*\*\*\* 053334 5-25-67 LUNAR DRB H1. 610HH 86W NONE 2723K 4463934 145 •5 14 -•43 SWINGE 330. PHASEE 77. EMIS.ANG. 1. LAM-HAD-= 14-365 89-488 CAM+RAD+# 4462+2 KM+ SUN AZM# 85+4
- LAC 73 RICCIOLI, NE . URIENTAL : LAC 90 LOWELL I LAC TUB M. ORIENISW 1/3 DI & LAC 91 EICHSTADT.SE L 4 1 188 13-38N 89-22W 33 --- --- 060409 5-25-67 LUNAR ORB HI, 610MM R6W NONE 2675K 4385246 255 1.3 15 -.27 CAM-NAD-= 13-72N B7-19W SWING= 69. PHASE= 72. EMIS-ANG-= 3. CAM-RAD. 4414-2 KH. SUN AZH. 92-7 LAC 55 VASCOULGAM ; LAC 72 ELVEY NOBEL ; LAC 37 STRUVE DAL ; LAC 54 BELB LAUE
- L 4 Z 188 13-39N 89-22W 33 \*\*\* \*\*\* 060409 5-25-67 LUNAR ORB LO.F-80MM B&W \* None 2675k 33437500 255 1.3 15 +.78 CAM-NAD-= 13-92N B7-19W SWING= 69- PHASE= 72, EMIS-ANG-\* 3-CAM-RAD ... 4414.2 KH. SUN 42Mm 92.7 LAC 55 VASCODENAM : W>1/2 HOON SPHERE : LAC 123 STEKLOV : LAC 21 N. GERARD, BOOLE & LAC 24 SINUS IRIDUM

TOTAL PHOTOS IN THIS GROUP # 14

CAM-NAU = 1.90H 64.46m

5#1NG= 169.

MESTERN PART OF LAC 56 HEVELIUS. HEINER

5UN AZH= 92.2

1402.2 KM.

CAM.RAD.m

6 LIMB OR HORIZON

THESE THU SYMBOLS NEXT TO HAIN OR PHOTO NUMBER HEAN: \* = DEGRADED PHOTOS. TILI ANGLES : AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS Sm ALMOST UNUSABLE PHOTOS. (-),(+),(), OH(U) = NO INFO W = APPROXIMATELY NEXT TO MAGN. BEBRACKET MOUNTED; G= CAM. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. . SUPER WIDE ANGLE LENS: EKTH\_EKTAR 2.8 LENS, HSB HASSFLBLAD; HAURE MAURER! ZP, ZB . ZEISS LENS (PLANAR . BIOGEN, SONAR); FOCAL LENGTH (MM) & HAX .F-OPENING IU+ AS EXPOS SPEED = 1/1000 FOR += TWO ZEROS: FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOHETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG.NEG. AT PP IF ALT NOT B.O.

					•		,	17 AC. 110	. 5.0
3,40	MAG FR.PHUID PRIN. N HULL OH LAT. H MAIN L	H TIMES	M SEC	C= 45 0 D	XPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M=N.MI PT. K=KM.	AZ A	NG. ANG. Fr.	FND.
į į	2 174° 1•96N 57• CAM-HAD-= 2•41N 57 S•	.73# 96 00* 7.11# SWING= . E. PART UF LAC	20U601 8-28-66 LUNAR 52• PHASE= 70• 56 HEVELIUS•REINER	: ORB LO.F#80MM R&W : EMI5.ANG.# 18.	T NANE				
L 2	1 213 7.46H 52. Cam.nad.= 3.30N 53 East	77W 108 *** **** 3*75W SWING= ERN PART OF LAC	141609 11-25-66 LUNAR 179• PHASE¤ 96• 56 HEVELIUS•REINER	CRB HI, 610HM B&W EMIS*ANG*= 73*	= None Camerade=	51K 836G7 1790•2 KH•	11 a	58.5 [] ZH# 97.0	-,44
	EASTERN PART OF	LAC 56 HEVELIUS	REINER	ORU LO.F=80MM B&M Emis.ang.* 73. & N. W. Part	OF LAC ST	1790+2 KH+ (EPLFR.FNCKF	SUN AZ	M= 92 • 0	
	I 214 2.86N 53. CAM-NAD.= 2.87N 53. 5.	61W LUI *** *** *62h SWING* W. PART OF LAC	174515 11-25-66 LUNAR 309. PHASE# 78. 56 HEVELIUS,REINER	ORU HI. 610MM RGW Emis.ang.# i.	- NONE	50K 81967 1789+2 KM+	SUN AZ	M= 91.1	
	5.	W. PART OF LAC	56 HEVELIUS REINER	OF8 LO.F.BOMM BGW EHIS.ANG.= 1.	LAM . RAD	1789+2 KM.	SUN AZ	H= 9101	
ι 2	1 215 7-03H 57-1 CAH-NAD-= 3-49N 5B CENTI	98W 102 ••• ••• 2 •73W SWING= 1 RAL PART OF LAC	211253 11-25-66 LUNAR 179. PHASE: 96. 56 HEVELIUS.REINER	ORB HI. 610MM B&W EMIS.ANG.m 66.	- NONE	53K 848R5 1792•2 KH•	11 6 SUN AZ	2•8 10 Mm 91•6	-,0+
	CFNI	HAL PART OF LAC	56 HEVELIUS, REINER	ORB LO.F=80MM B&W EMIS.ANG.= 66.	- CAM+RAD+# LIMB OR HORIZ	1792+2 KH+  ON	SUN AZ	H= 91.6	
	t 214 /.USN 64. CAM.HAD.m t.9UN 64. MESIE	39W 96 *** **** 2 *4&%	224304 2-22-67 LUNAR 69. PHASE= 86. 56 HEVELIUS.HEINER	ORB HI. 610MM B6W EMIS.ANG. # 71. 6 L	- None Can.rad Limb or Horiz	63K 103279 1802•2 km. On	SUN AZ	Mm 92+2	
į. <b>3</b>	2 214 7-07N 64-3 CAM-NAD-= 1-98H 64-	39ส 96 *** *** 2 - 46ท	24304 2-22-67 LUNAR	ORB LO.F=ROMN BEW	- NONE	63K 787500	360 A	5.7 6	-,••

PHASE# 86. EMIS.ANG. # 71.

The first of the second control of the secon

ALTI SCALE AT TILT SUN SIDE. CAMERA-LENS OR FILH-EXPOSURE HIS MAG FR.PHUTU PRIN.PT. URB GET GHT M-DA-YK SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. SION ROLL ON LAT. # TIMES-HH M SEC FR. LAP TYPE MERAMI PT. LUNG. (IMESTIMATED) # MAIN K=KM. VERT \$ , X - NONE 65K 106557 273 1+1 6 -+\*\* L 3 1 215 2-J2N 66-7DW 97 \*\*\* \*\*\* 021124 2-23-67 LUNAR ORB H1. 610MH R6W CAM.NAD. = 2.LIN 66.66# SWING= 73. PHASE= 83. EMIS.ANG.= 1. CAM.RAD. = 1804.2 KM. SUN A7M= 91.6 S. W. PART OF LAC S6 HEVELIUS REINER

L 3 Z Z15 Z-UZN 66-7DN 97 \*\*\* \*\*\* 021|Z4 Z-Z3-67 LUNAR ORB LO-F-80NM B&W - NONE 65K 812500 Z77 1.2 6 --\*\*

CAM-NAD-- Z-UIN 66-65W SWING- 77. PHASE B3. EMIS-ANG. 1. CAM-RAD-- 1804-2 KM. SUN AZM-91-6
S. N. PART OF LAC 56 HEVELIUS-REINER

L 4 2 142 42-045 33-37M 26 \*\*\* \*\*\* 165605 5-21-67 LUNAR ORB LO-F-80MM 86W - NONE 3007K 37587590 93 5-2 20 --\*\*

CAM-HAD-\*\* 42-145 45-58M S. ING= 291\* PHASE# 84\* EMIS-ANG=#14\* CAM-RAD\*\* 4746-2 KM\* SUN AZH# 70-4

LAC 111 MILHELM, ELGER, MEE | D>1/2 MOON SPHERE | LAC 144 SCOTT+S-POLF NEARSIDE >6 LAC 56 HEVELIUS+RF1

L 4 2 148 42-945 41-38W 27 \*\*\* \*\*\* 045722 5-22-67 LUNAR ORD LO-F-ROMM BOW "NONE 3009K 37612500 99 4+6 18 --\*\*

CAN-NAD-- 42-115 52-33W SHINGE 297. PHASEE 84, EMIS-ANG-- 13. CAM-RAD-- 4748-2 KM- SUN AZM-- 71+6

LAC 110 SCHICKARU-LACROIX ; \$\infty\$>1/2 MOON SPHERE 1 LAC 144 SCOTT-S-POLF NEARSIDE >6 LAC 56 HEVELIUS-REI

L 4 1 149 15:055 4H:76W 27 \*\*\* \*\*\* 05294D 5-22-67 LUNAR ORB HI: 610MM B&W -- NONE 2720K 4459016 127 \*7 18 -:49

CAM:NAD:= 14:4US 49:64W -- SWING:= 31J: PHASE= 74: EMIS:ANG:= 2: CAM:RAD:= 4459:2 KH: SUN AZM= 84:4

LAC 75 LETKUNNE:F ; LAC 74 GRIMALDI:B ; LAC 92 BYRGIUS:DA ; LAC 93 M=HUMOR:GASSENDI -- G LAC 56 HEVELIUS:REIN

L 4 2 155 42-405 48-89W 28 \*\*\* 165827 5-22-67 LUNAR DRB LO.F=80MM 86W - NAME 3011K 37637500 95 4.3 17 -.\*\*

CAM-NAD-# 42-075 59-07W SWING# 293. PHASE# 84. EMIS-ANG.# 12. CAM-RAD-# 4750-2 KM. SUN AZM# 72-8

LAC 130 SCHICKAND-LACKUIX 1 D>1/2 MOON SPHERE 1 LAC 144 SCOTT-S-POLE NEARSIDE >6 LAC 56 HEVELIUS-REI

L 4 1 156 14.885 55.80W 28 \*\*\* \*\*\* 173043 5-22\*67 LUNAR ORB H1. 610MM B&W - NONE 2722K 4462295 136 .4 17 -.49

CAM.NAD.\* 14.395 56.29W SWING\* 321. PHASE\* 74. EMIS.ANG.\* 1. CAM.RAD.\* 4461.2 KM. SUN AZM\* 84.7

EASTERN PART OF LAC 74 GRIMALDI.B; EASTERN PART OF LAC 92 BYRGIUS.DA; LAC 56 HEVELIUS.RFINER & LAC 93 M.HUHOR.GASS

E 4 1 157 13-36N 56-27W 28 ••• •••• 180116 5-22-67 LUNAR ORB HI• 610HM B&W - NONE 2669K 4375410 255 1•4 17 →•28

CAM•HAD•= 13-91N 54-17M SWING= 69• PHASE= 70• EMIS•ANG== 3• CAM•RAD•= 4408•2 KH• SUN AZM= 93•4

EASTERN PART OF LAC 56 HEVELIUS; REINER I EASTERN PART OF LAC 38 SELEUCUS; S & NORTHERN PART OF LAC 74 GRIMALDI, BIL

L 4 | 161 | 15-135 61-98W 29 \*\*\* \*\*\* 053134 5-23-67 LUNAR ORB HI. 610MM B6W - NONE 2723K 4463934 129 +8 17 --48

CAM-NAD-= 14-365 62-94N Shing= 315. PHASE= 75. ENTS-ANG== 2. CAM-RAD-= 4462-2 KM. SUN AZM= 84-7

CENTRAL PART OF LAC 74 GRIMALD1:B : CENTRAL PART OF LAC 92 BYRGIUS-DA ; LAC 56 HEVELIUS-RETNER & LAC 109 PTAZZI-V-ROU

L 4 1 162 13-22N 62-17W 29 \*\*\* \*\*\* 8602U8 5-23-67 LUNAR ORB HI. 610MM H6# - NONE Z67OK 4377U49 243 1-0 17 --3U Can-Nad-= 13-93N 60-75% Swing= 57. Pha5e= 71. Emis-ang.= 3. Can-Rad-= 4409+2 km. Sun azm= 93-4 Me51ehn Pari up lac 56 hevelius.xeimer ; central part of lac 38 seleucus.s & N. W. Part of lac 74 grimaldibil

- NONE 112K 183607 280 9.6 15 -, 8

CAM+RAD+= IR51+2 KH+

SUN AZH# 92+1

L 5 1 213 13-590 56-040 83 \*\*\* \*\*\* 213957 8-18-67 LUNAR ORB HI. KIOMH BEW

CAM-NAD-= 13-47H 55-41B SWING= 186. PHASE= 65. EMIS-ANG-= 10.
N. E. PART OF LAC 56 MEVELIUS-REINER

STUN KOLL OR LAT	IN.PT. URB GET GMT # TIMES=HR M SEC LUNG. (I=ESTIMATED)	SENSOR	AND FILTER	TUDE PRIN. AZ	L T SUN SIDE, ANG. ANG. FWD. FR. LAP VERT 8, 9
CAMANADAR 13.93N	62.18W 29 000 000208 60.75% SHING= 57. W>1/2 MOUN SPHEKE; LAC	PHASE 71. EMIS.AN	S.= 3. CAM-RAD.=	44R9.2 KM. SUN	A7M# 93+4
£ 4   168   14.455   6 Cam.Nad. = 14.145 Eac 74 Grinaldi*Bii	68.18m 30 173229 69.56m Swing= 208. LLY ; EAC 73	PHASE 76. FM15.AN	610MM R6W - NONE G.= 2. CAM+RAD+= T LAC 91 EICHSTADT+SE.OR	4461+2 KM+ SUN	AZM# 84.9
4 8 W - 14 4 D - 10 1 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	68.49W 30 ••• ••• 180302 67.33W SWINGE 62. LAC 55 VASCUDEGAM 1 1.33	PHASES 71. FRISAAN	sam 2. Calieren.m	2672K 438n328 248 4411+2 km+ 5UN & LAC 74	AZM# 93+5
CAM . NAD . = 14.14N	68.494 30 *** *** 180302 67.334 5hing= 62. w>1/2 Houn 5PH£KE; Lac	PHASE= 71. EMIS.AN	G.= 2. CAM-RAD.=	2472K 33400000 248 4411+2 KM+ SUN & EAC 12	+8 17 78 AZM= 73+5 PLATO, ALPINE
CAM-MAD-# 41.995	75-23W 32 *** *** 170054 85-86W SWING= 283. UUVARD ; Q>1/2	PHASE # 87. EMIS.AN	G.= 13. CAM:RAD:=	4748 • 2 KM • 5UN	: <u>47</u> 8# 74+6
L 5 i 2i0 i2•67M Cam•NaD•= i2•61N	56.114 H3 *** *** 213942 55.494 SWING= 181. H. E. PART OF LAC 56 HE	U-18-67 LUNAR ORU HI. PHASE= 65. EMIS.AN VELIUS,REINER	610MM B&W - NONE G.= 10. CAM-RAD-=	111K 191967 275 1850+2 KH+ SUN	9+6-15 -+**   gZM= 91+8
L 5 2 210 12.68N CAM.NAD.= 12.61N	56.12W 83 213942 55.49W	PHASE= 45. EMIS.AN	#80MM B&W - NONE G.= 10. CAM-RAD.+	111K 13875n0 275 1850+2 KH+ SUN	5 9+7 15 <b>**</b> 5 A7H# 91+8
L 5 1 211 12.97N Cam-mad.= 12.89N	56.09% 83 *** *** 213947 55.46%	PHASE= 65. EMIS.AN	610MM B&W - NONE G.= 10. CAM-RAD-=	111K 181967 277 1850+2 KM+ SUN	7 9+6 15 -+ 8 1 AZM# 91+9
L 5 % 211 14•98H CAM•NAD• ≈ 12•9UN	56.10# 83 *** *** 213947 55.46# SWING# 183. N. E. PART OF LAC 56 HE	PHASE # 65. EHIS.AN	=80MM B&W = NONE G•* 10+ CAM+RAD+=	111K 13875n0 277 1450+2 KM+ SUA	7 9.7 15 -187 1 A <sub>2</sub> M= 93.9
( 5   212   13•28N Cam•Nap•= 13•18N	56+U6W 83 ••• •••• 213952 55+43W Swing= 184+ N• E+ PART UF LAC 56 HE	PHASE= 65. EMIS.AN	610MM B&W ← NONE G.= 10. CAM•RAD•=	111K   81967 275 1850+2 kM+ SUN	7 9.6 15 =. B 1 AZM= 92.B
( 5 2 212 13+29h (AH+4AD+= 13+19h	56.078 83 213952 55.438 SWING= 184. N. E. PART OF LAC 56 HE	PHASE= 65. EMIS.At	=80MH H&#</td><td>111K 13A7500 27S 1A50+2 KM+ SUM</td><td>7 9.7 1587 8 Ayn= 92.0</td></tr></tbody></table>		

# S10N	Ħ	# TIMES-HR M SEC (**ESTIMATED)	Ş	SENSON TYPE	AND FILTER	TUDE PRIN. M=N+HI PT. K=KM+	T 1 L T SUN S AZ ANG. ANG. FR. VERT	FMD. LAP
įs	2 213 13-66N 56-65W 55-459 N. E.	83 *** **** 213458 5 SWING= 186. PART OF LAC 56 HEV	, 11475 m 03 m	DRB LO•F≖80MM B&W EMIS+ANG•= 10•	- NONE	112K   140000G 1851+2 KM+	280 9.8 15 SUN AZM# 92.1	87
լ 5	1 214 13.9UN 56.01W CAM.NAD.# 13.76N 55.38W NURTHERN	83 ••• ••• 214003 5wings 188. Part of Lac 56 hev	FURSE OF	DRU HI. AIOMM B&W EMIS-ANG.# 10.	~ NONE CAM•RAD•≡	112K 183607 1851+2 KH+	282 9+6 15 SUN AZH# 92+2	e
ιb	2 214 13.71N 56.02N CAM.NAD.= 13.77N 55.38W NORTHERN	83 *** *** 214003 5w1NG= 188. PART OF LAC 56 HEV	PHASE# 65.	_		112K   1409000 1851+2 KM+	282 9+8 15 SUN A7N# 92+2	-,87
լ 5	i 215 i4-21N 55.99% Cam-had.= i4-Jan 55-35% Nurthern	83 ••• ••• 214008 Swing= 189. Pant Of Lac 56 Hev	T D A 2 2 2 4 5 4 5 4	DRB H1. 610MM B&A EMIS•ANG•= 10•	- NONE	112K  836N7  185 +2 kH+	284 9.7 15 SUN AZH# 92.3	-, 7
L S	2 215 14+22N 55+99W CAM+NAD== 14+U6N 55+35W NURTHERN	83 900 000 214008 SWINGO 1890 PART OF LAC 56 HEV	,	RB LO.F=80MM R&W EMIS+ANG.= 10.	- NONE CAM+RAU+#	112K   1400000 1851+2 KM+	284 9+8 15 SUN A2H# 72+3	-,87
ŧS	1 216 14.53N 55.76W CAM.NAD.= 14.35N 55.33W NORT RN	83 *** *** 214013 SWING= 191. PART OF LAC 56 HEV	PHASER AS.			113K 185246 1852+2 KM+	285 9.7 15 SUN AZM# 92.4	7
լ 5	2 216 14.53N 55.97W CAM.NAD.# 14.36N 55.32N NDRTHERN	83 *** *** 214013 SWING= 191. PART OF LAC 56 HEV	. LUNAS - 92.	CHID+ANG+# [B.	T NONE	113K 1412500 1852+2 KH+	285 9.9 15 SUN A7M= 92.4	87

TOTAL PHOTOS IN THIS GROUP # 40

LAM-NAU-= 2-4UN 34.33m

					•		1, 45, 40,	
# 3 1 0 14	MAG SR.PHUIU PKIN.PI KOLL UK EAT. # MAIM LUM	# TIMES-HR M SEC G. (F=ESTIMATED)		TYPE TYPE	AND FILTER	KeKH.	ANG. ANG. FR. VERT	EWD. Lap 8. 8
		LAC 57 KEPLER.ENCKE		6 5. W. PART	CAMPRAD == OF EAC 5A	COPERNICUS.REINHOLD	1 <u>a</u> zm= 88.7 )	
		PART OF LAC 57 KER	PLER . ENCKE	Cuibaduñ-= 2.	CAM+RAD+=	1791 • 2 KM • SUN	A7H= 88.6	
		LAC 57 KEPLEH, ENCKE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	& N. E. PART	OF LAC 75	.1790•2 KH•       SUN LETRONNE <sub>•</sub> Flamstd	1 AZM= 88+6	
		LAC 57 KEPLER.ENCKE	,	6 N. E. PART	CAM+RAD+# Of LAC 75	-1790+2 KM+ SUN Letronne+Flahstd	1 AZH= 88+5	
	2 156 U-32N 35-249 CAM-HAD+= -32N 35-15 S+ E- PAHI OF L	AC 57 KEPLER.ENCKE	8-27-66 LUNAR Phase= 70•	ORO LO.F.BOHM B&W EHIS.ANG. = 3. & N. E. PART	" NONE CAM•RAD•# OF LAC 75 I	50K 62500G 270 1789•2 km• sun Letronne.flamstd	A7M= 88.5	
	1 179 2.42N 34.44 CAM-HAD-= 2.42N 34.45 5. E.	9 93 *** *** 135801 5w Swing= 275. Part of Lac 57 kep	11-24-66 LUNAR PHASE= 73. LER,ENCKL	ORB HI. 610MM B&W EHIS-ANG. # 1.	T NONE	45K 73770 106 1784+2 KH+ SUN	AZM= 91.2	
ί2	2 179 2.42N 34.43N LAM.HAD.= 2.42N 34.49 S. E.	: 93 *** *** 135801 ;w		ORB LO.F.BOMM 86W EMIS.ANG.# 1.	" NONE	45K 5625ND 96 1784•2 KM• SUN	+6 17 -	-,••

PHASE# 73. EHIS.ANG.# 1.

2-39# 34-32# 93 \*\*\* \*\*\* 135803 11-24-66 LUNAR ORB HI. 610MM BEW

CAM.NAD. 2.46N 34.34h SWING. 274. PHASE 73. EHIS.ANG. 1.

5. E. PART OF LAC 57 KEPLER, ENCKE
L 2 2 180 2.390 34.314 93 ... 4... 135803 11-24-66 LUNAR ORB LO.F=80MH B64

5w1NG# 265.

S. E. PART OF LAC 57 KEPLER, ENCKE

REPRODUCIBILITY OF THE

.7 18

•7 18

SUN AZM# 91.2

SUN AZM# 91.2

73770 106

562500 96

NONE

NONE

CAM-RAD-m

CAM+RAD ..

45K

45K

1784.2 KH.

1784.2 KM.

															PAGE	117
		N		Long.	₹+=E2111	MATEDI			ERA-LENS OR Sensor Type		· ·	MEN	H PI.	ΑZ	ANG. ANG.	FWD.
				J. C. TANI	Ur LAC	. ST KEPL	ER . ENCKE		ORB HI. 610MM EMIS.ANG.=		- NONE			105 5UN	*8 18 A7H# 91+2	z, z -, 8
				S. E. PART	OF LAC	57 KEPL	=PHASE ER.ENCKE	73.	ORE LO.F.BOMM	1.	™ NONE	: 45K 1784+2	562570 KM•	97 SUN	.9 1g AZH: 91.2	87
	2 1 Car	}#2 1.#4D.#	2+34N 2+35N	34.08W 93 34.10W 5. E. PART	SKING= OF LAC	135807 1 273. 57 KEPL	1-24-66 PHASE= ER.ENCKE	LUNAR 73.	ORB HI: 610MM EMIS:ANG.=	B&W	" NONE	. 45K	73770	104	.9 10	_ 0
				S. E. PART	OF LAC	57 KEPLI	#36AHT BRJUB,83	73.	ORS LO.F.BOMM EMIS.ANG.B	1 •	" NONE Camerades	45K 1784•2	562500 KM:	9.8 SUN	1+0 18 AzM# 91+2	<b></b> 87
				S. E. PART	UF LAC	57 KEPLE	PASE POR	73.	ORB HI. 610HM EMIS.ANG.=	1.	- None	45K 1784•2	73770 KH:	104 SUN	1+1 18 AzN# 91+2	-, a
				S. E. PART	OF LAC	206. 57 KEPLE	PHASE R.ENCKE	73.	GRB LOSF#89MM EMIS•ANG•# 1	١,	" NONE	45K 1784•2	562500 KM+	99 SUN	l+1 18 A7M= 91+2	87
				S. E. PART	UF LAC	57 KEPLE	RENCKE	73.	ORB H1. 619HH EMIS.ANG.= 1	l •	- NONE	45K 1784•2	73770 KH+	1 N 4 5 U N	1+2 18 AZM= 91+2	A
				S. E. PART	OF LAC	57 KEPLE	RIENCHE	73.	ORB LO.F.BOMM EM15.ANG	•	" NONE	45K 1784•2	562500 KM#	98 SUN	1+2 <u>1</u> 8 A <sub>7</sub> M= 91+2	<b>-,</b> A;
				S. E. PART	OF LAC	57 KEPLE	R.ENCKE	73.	URS HI. 610MM EHIS.ANG.= 1	•	- NONE CAMorad+#	45K 1784.2	73770 KH:	104 SUN 1	l+3 18 L7M= 91+2	A
				S. E. PART	OF LAC	907. 57 KEPLE	PHASE: R.ENCKE	73.	ORB LO.F=30HM EHIS.ENG.= 1	•	- NONE	45K 1784•2	5625NQ KH•	99 50# #	1.3 lg 17M= 91.2	87
				S. E. PART	OF LAC	S7 KEPLE	PHASE#	73.	DRB HI. 610MB   Emis-Ang.= 1	•	T NONE	1784.2	KM e	SUN A	Zn= 91.2	
L Z	Z Cam.	186 . HAD.=	2+24N 2+25N	33.584 93 e 33.62W 5. E. PART	SW1NG= 2 DF LAC	35815 []• 67• 57 KEPLEH	-24-66 LI PHASE® F.ENCKE	UHAR (	DR8 LO+F≠80MM   EMIS+ANG.≠	B&W	# NONE CAMERADE	45K 1784•?	5625n0 KM• 9	99 SUN A	1+5 18 7M= 91+2	87

н 1012 1	MAG FRIPHOTO P HOLL OR LAT H HAIN H	RIN.PT. ORB GET  o g TIMES=+  LONG. (**ESTI	GMT M+DA-YR CAI R M Sec Mated)	MERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	TUDE PRIN. M#N.MI PT.	AZ ANG. ANG. FRO	) e LP
ι 2	1 187 1-99N Cam-Nad-= 2-00N	34.364 94 600 34.394 Stings 5. E. Part of La	172706 11-24-66 LUNAI 269. PHASE= 72 C 57 KEPLER,ENCKE	R ORB HI. 610MM EMIS.ANG.m	R&W - NONE I: CAH+RAD++	46K 75410 1785+2 KM+	100 1+0 19* SUN A7M# 91+1	۰.
լ 2			172706 11-24-66 LUNA: 263. PHASE# 72 C 57 KEPLER,ENCKE					•
L Z	1 188 1•97N Lam•Nad•# 1•97N	34.24% 94 swings 34.27% Swings 5. E. PART OF LA	172708 11-24-66 LUNAI 269。 PHASE= 72 C 57 KEPLER,ENCKE	R ORB HI. 610MM EHIS.ANG.=	BLW = NONE 1. CAM-RAD.=	46K 75410 1785+2 KM+	101 1+2 19 SUN A7H# 91+1	A
L 2	2 188 1+97N CAM+NAD+= 1+97N	34.234 94 6.04 34.26W SWINGS 5. E. PARI UF LA	172708 11=24=66 LUNAI 263. PHASE= 72 C 57 KEPLER,ENCKE	R ORB LO.F=BORN . EMIS.ANG.=	B&W - NONE I+ CAH+RAD+#	46K 5750an 1785+2 KH+	95 1.2 198 SUN AZH= 91.1	17
ι 2			172710 11-24-66 LUNAI 269. PHASE= 72 C 57 KEPLER,ENCKE					A
լ 2			17271G 11-24-66 LUNAI 264. PHASE= 72 C 57 KEPLEH.ENCKE					17
į 2			172712 11-24-66 LUNAI 269. PHA5E= 72 C 57 KEPLER.ENCKE					8
ί2			172712 11-24-66 LUNA 264. PHASE# 72 C 57 KEPLER,ENCKE					37
ι 2			172714 11-24-66 LUNA 269. PHA5E 72 C 57 KEPLER,ENCKE					8
L 2			172714 11-24-66 LUNA 265. PHASE 72 C 57 KEPLER, ENCKE					37
į 2	1 192 1-8714 Cam-mad-= 1-8716	33•79# SWING:	172716 11-24-66 LUNA 269• PHASE= 72 C 57 KEPLER,ENCKE	R ORB HI. 610HH - EHIS.AHG.=	B6# " NANE Z• CAM•RAD•≡	46K 75410 1785+2 KH+	1n1 1+6 20 , SUN AZH= 91+1	8
٤ 2			172716 11-24-66 LUNA 265. PHASE= 72 C S7 KEPLER,ENCKE					17

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

51 UN	MAG FR.PHUTU PR RULL UR LAT. B MAIN B		TIMES-HR !	M SEC			HA-LENS OR SEHSOR TYPE	FILM-E	xPOSURE AND FILTER	TUDE		A Z		ANG,	
ί2	1 193 1-84N . CAM-HAD-= 1-85N	33.62W 94 33.67W 5. E. PART	SHING= 24	69.	PHASE =	72+	ORB HI. 610MM EHIS.ANG.= ;	86m 2•	- NANE CAM-RAD-E	46K 1785•2	75410 KM+	101 5UN	I o B	20 91+1	-, 7
L 2	2 193 1.84N . CAM-NAD-# 1.85H		5WING= 2	<b>65</b> .	PHA5E#				* NONE						
ι 2	. MIR+ 1 + 61 T	33+50# 99 33+55# 5. E. PART	Swing = 20	69.	PHASE=	UHAR 72•	ORB HI. &LOMM EHIS.ANG.# ;	B&# 2•</td><td>- HONE</td><td></td><td></td><td></td><td></td><td></td><td>-, 7</td></tr><tr><td>( 2</td><td>2 194 1+82N . CAN-NAD-= 1-82N</td><td>31.49W 94 33.54W 5. E. PART</td><td>SWING = 20</td><td>66.</td><td>PHASE <b>≈</b></td><td>UNAR 72.</td><td>ORH LO.F.BUNN EMIS.ANG.= :</td><td>8&# 2.</td><td>CAM+RAD+= MONE</td><td></td><td></td><td></td><td>•</td><td></td><td>87</td></tr><tr><td></td><td>1 195 2.83N CAM-MAD-# 2.83N</td><td>42.74W S. W. PART</td><td>Salug= 25 of Lac</td><td>53. 57 KEP</td><td>PHASE#</td><td>77.</td><td>EHIS.ANG.=</td><td>i •</td><td>- NONE</td><td></td><td></td><td></td><td>_</td><td>-</td><td></td></tr><tr><td>L 2</td><td>2 195 2.83N CAM-NAU.= 2.82N</td><td>42.71W 96 42.74W 5. W. PART</td><td>5#1NG= 2"</td><td>48.</td><td>PHASE =</td><td>UNAR 77.</td><td>ORB LO.F.BOHN EMI5-ANG.=</td><td>86# 1 •</td><td>- NONE</td><td></td><td></td><td></td><td></td><td></td><td>-</td></tr><tr><td>L 2</td><td>i 147 [+89N   CAM+NAD+# 1+9UN   S</td><td>42+17W 98 42+18W UUTHERN PAR</td><td>5w1NG= 2</td><td>79.</td><td>PHASE</td><td>UNAR 72•</td><td>ORB HI. SIOMH EMIS-ANG.=</td><td>86W 1•</td><td>- NONE</td><td></td><td></td><td></td><td></td><td></td><td>-,••</td></tr><tr><td>ι 2</td><td>2 197 1-69N CAM-HAD-* 1-9UN S</td><td>42.16# 98 42.18# Uuthern Par</td><td>5ning= 2</td><td>68.</td><td>PHASE #</td><td>UNAR 72.</td><td>URB LO.F#80MH EHIS#ANG.#</td><td>86# 1.</td><td>= N∩NE CAM•RAU•=</td><td></td><td></td><td></td><td></td><td></td><td>•</td></tr><tr><td>ι 2</td><td>1 178 1.86N CAM.NAD.= 1.87N S</td><td></td><td>SAING= 2</td><td>77.</td><td>PHASE*</td><td></td><td></td><td></td><td>- NONE</td><td></td><td></td><td>-</td><td></td><td>•</td><td> 9</td></tr><tr><td>į 2</td><td>2 198 1-87N CAM-NAD-= 1-87N S</td><td>42.03% 98 42.05% OUTHERN PAR</td><td>SWING 2</td><td>68.</td><td>PHASE=</td><td>UNAR 72.</td><td>ORE LO.F=80HM EMI5+ANG+=</td><td>86W  -</td><td>- NANE Cam-rad-=</td><td>-</td><td>-</td><td></td><td></td><td></td><td>48</td></tr><tr><td>L Z</td><td>1 179 1-84N CAM-NAD-# 1-85N S</td><td>41.94M 41.94M 41.41M 48</td><td>SWING= 2</td><td>76.</td><td>PHASE</td><td>UNAR 72.</td><td>ORB HI. 610HM EHIS+ANG.#</td><td>B&# I•</td><td>- NONE</td><td></td><td></td><td></td><td></td><td></td><td>-, 9</td></tr><tr><td>ί2</td><td>2 199 1-84N CAM-NAD-= 1-84N S</td><td>41.9]W 98 41.93W UUTHERN PAH</td><td>5#1NG= 24</td><td>68.</td><td>PHA5E=</td><td>UNAR 72•</td><td>ORB LO.F=80HH EHIS+ANG.=</td><td>86# 1•</td><td>* NONE</td><td></td><td>60n988 KH•</td><td></td><td></td><td></td><td>98,~</td></tr></tbody></table>							

#	WIAM H	LUNG.	( =F2 II	HATED)		SENSOR Type		SPOSURE AND FILTER		ĄZ	ILT SUN ANG. ANG. FR. VERT	SIDE: FWD: LAP 8: 8
ί 2	I Zud tee Camenade= 1.	OEN ATTHIR	341H0E	072119 11-25-66 275. PHASE= C 57 KEPLER,ENCKE	77.	ORB HI. 610MM Emis.ang.= ;		T NONE	48K 7868 1787•2 KM•	9 10 <sup>7</sup> Sut	7 1+0 19 8 AzM= 91+1	9
	CHIIONADO I	SUUTHERN	PART OF LAC	072119 11-25-66 268, PHASE C 57 KEPLER,ENCKE	72.	EHIS ANG. = 1	۱.	= NONE	48K 60n0n 1787+2 KM+		1 +	
( 2	1 231 1.7 LAM.NAD.= 1.	114 DI 1944	つり しりじゅ	072121 11-25-66 275. PHASE= 57 KEPLER:ENCKE	72.	ORB HI. 610MM EMIS.ANG.= 1		" NONE CAM+RAD+#	48K 7868 1787•2 KH•	9 106 5UN	1+1 19 1 AZM= 91+1	9
L Z	2 2J1 1.07 Cam.Nag.= 1.	489°I6 NAV	>+ 1110=	072121 11-25-66 269. PHASE= 57 KEPLER.ENCKE	72.	JR8 LO.F=80MM Emis.ang.= 1		" NONE	48K 600nn 1787•2 km		1+1 19   A <sub>2</sub> Mw 9 <sub>1+1</sub>	88
ί 2	1 202 1+7 CAM+HAD+= 1+	//N 71.65/W	># : N (: ±	072123 11-25-66 2744 PHASE 57 KEPLER ENCKE	* ^	HB HI. 610MM Emis.ang.= 1		- NONE	48K 786R 1787+2 KM+	9 106 SUN	1+2 [9 AZH# 91+1	-, 9
ί, 2	2 202 1.7 CAM-HAD.= 1.	,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	211111111111111111111111111111111111111	U72124 11-25-66   269. PHASE# 57 KEPLER,ENCKE	77.	RB LO•F=80MM EM1S+ANG+# }		" NONE	48K 60000 1787+2 KM+	7 LOO 5UN	1+3 19 1+19 = MSA	-,88
		SUUTHERN	PART OF LAC	072125 11-25-66 ( 274. PHASE= 57 KEPLER:ENCKE	72.	EHIS.ANG. = 1	•	= None CAh⊹RAD+=	48K 7968 1787+2 KM+	7 105 SUN	1+3 19 AZM# 91+1	-, 9
	CHISTIANS I.	SOUTHERN	PART OF LAC	072126 11-25-66   269. PHASE* 57 KEPLER,ENCKE	72.	EMIS.ANG. # 1	• !	" HONE	48K 60000 1787+2 KH+	0 100 SUN	[=4 19 A7H# 91+1	88
	CHITTINGUE 12	PARTITION C	PART OF LAC	072127 11=25-66   273. PHASE= 57 KEPLER.ENCKE	72.	EH15.ANG. = 1	•	- NONE	48K 7868 1787•2 KM•	, 102 208	1+5 19 AZM= 91+1	-, 9
	**************************************	SUUTHERN 41.41	PART OF LAC	072128 11-25-66 ( 269. PHASE = 57 KEPLER,ENCKE	72.	EMIS.ANG.# 1	. (	™ NONE CAM•RAD•#	48K 600000 1787•2 KH•	INT SUN	1+5 19 A7M# 91+1	BA
	CHRISTIAN I.	SOUTHERN	PART OF LAC	105018 11-25-66 L 263. PHASE 57 KEPLER.ENCKE	71.	EMIS-ANG.s 1.	• (	" NONE	49K 80326 1788•2 KH•	95 5UN	1+1 20 AZHm 91+D	••
ί2	2 205 1.46 CAM-NAD-# 1.4	1201411	34110c .	105018 11-25-66 L 258. PHASE= 57 KEPLER.ENCKE	UNAR O	RH LU.F=80MM ; Emi5.ang.= l.	46W • (	= NONE	49K 6125AC 1788+2 KH+	89 SUN	1+1 20 Azm= 91+n	

510N	RULL	ÜK	LAT	i	#		M SEC			RA-LENS ON SENSOR Type	FILM≖E	XPOSURE AND FILTER	TUDE	PRIN. PT.	ΑZ	ANG. FR.	ANG.	FWD. FWD. LAP 8. 8
ί 2	i . Camel	2u6 NAD+≖	1 - 4514	42+024		ទីជ∏ម6≖	264.	11-25-66 PHASE= PLER,ENCKE	71.	ORG HI. 610MM EMIS-ANG.=	864 1•	- NONE CAM«RAD»=	49K 1788+2	8g328 KH•	96 SUN	I = 2 A Z H ==	? 20 91•0	-, 9
٢2	Z . CAM+I	Zij6 RaD∎≖	1.451	42.02%		2#1H@=	259.	11-25-66 PHASE= PLEK:ENCKE	71-	ORB LO.F.BOMM EMIS.ANG.=	86# 1•	= NONE	49K 1788•2	612590 KH•	91 SUN	1+3 AZM=	20 71+0	-,67
ι 2	i . Cambi	2u7 NAD+=	1.438	41.90W		5w1NG=	264.	11-25-66 Phase= Pler:encke	71.	ORB HI: 610MM EMIS:ANG.=	6 W	- NONE	49K 1788=2	80 <b>32</b> 8 KH•	96 SUN	1 = 3 AZM#	91•0	-, 9
ί2	Z . Camel	207 Nab.=	1.428	41.89#		SWING	260+	11-25-66 PHASE= PLER,ENCKE	71.	ORB LO.F#89MM EMI5*ANG*#	86# 1•	- NONE	49K 1788+2	612500 KH+	92 SUN	1 + " AZH=	71.0	88
լ 2	i Can-	14AU•≖	1.4UN	41.774		SHING=	265.	11-25-66 PHASE= PLER,ENCKE	71.	ORB HI. 610MM EMIS.ANG.=	86W  -	- NONE		_				
լ 2	Z Cam+	2∪8 HAD•=	1 . 4UN	41.760		SWING=	261.	11-25-66 PHASE = PLER,ENCKE	71.	URB LO.F.BOMM EMIS.ANG.=	86₩ 2•	# NONE	49K 1788+2	612500 KM+	92 SUN	1+! AZH#	5 21 91•0	<b>-,</b> 88
L d			1.376	41.65#		SWING	265.		71.	URB HI. 610MM EHIS.ANG.=		- NONE						
լ 2	CAM.	269 Nad+=	1.374	41.640		2MING=	261.	11-25-66 Phase= Pler, encke	71.	ORB LU.F=80MM EHIS+ANG+=	86* 2.	- NONE	49K 1788+2	612500 KH•	93 SUN	1 + 6 A Z M =	91.0	-,88
ί2			1 • 35H	41.524	ı	Swing=	266.		71.	URB HI. 610MM EMIS.ANG.=		- NONE				-		-, 9
L 2	۷ ( ۱۹۲۵ -	210 NaD = #	1.J5N	41.516	i	SWING=	262.	PHASE= PLER,ENCKE	71.	URB LO.F.80MH ENIS.ANG.*	86W 24	- NONE	49K 1788•2	612500 KM+	9 4 SUN	I+I AZH=	91.0	88
وذ	I CAM•	ZII Nado=	1+32H	41.398	ſ	รูฟไท <b>ด</b> ≖	266.	: 11+25-66 PHASE PLER,ENCKE	71.	ORB HI. 610MM ENIS.ANG.#	86 W	= NONE Cam=rad==	49K 1788•2	80328 KH•	9.8 5UN	1 = 1 Д Z М#	9 21 91•0	-, 9
լ 2	≟ LAH•	ZII NaD•=	1.328	41+384	1	241116=	262.	J 11-25-66 PHASE PLER,ENCKF	71.	ORB LO.F.BOMH EMIS.ANG.#	86# Z•	- NONE	49K 1788•2	612500 KH+	94 SUN	L+'	9 21 91•0	88

and the second of the second o

E LOAD	#	Oat			# 1	MF2+Hk	11 3EC	M-DA-YH		ERA-LENS SENSOR TYPE		FILM-E	(POSURE AND FILTI	FR T	UDE	ALE MT PRIN. PT.	Ą Z	ANG.	ANG.	IDE: FWD: Lap R, R
ι 2			3 C Li	46-234		2 N I N O P		11-25-66   PHASE# LER,ENCKE	_UN AR 71 •	ORS HI. EMIS.AN	610MM G.= 2		~ NO	<b>n</b> }	788•2	* M •	SUM	AZMP	¥1•0	
L Z	2 21 CAM+Nµ	Z I	-29N	41.204	99 ••	• •••• 5พ.เมษิต	105033 263•	II-25-66 PHASE= PLER+ENCKE	,,,,	ORO LO.F	EBOHH IG•= 2	86W	- N CAH+RAD+	<b>4</b> 3	788•2	KH•	SUN	,ZM=	41.U	
	CAM-NA	U • *	# « () () ()   3 • 3 () ()   4 0   2 • 8 T	52.75# 53.74# UF LA	100 **	EVELIUS SWIHG=	141609 179: #EINE	11-25-66 PHASE=	LUNAR 96.	6	N. Y	N, PART		= 1 57 KE	790+2 PLER.E	KM+	SUN	AZM=	9Z+0	
ί 3			1 • 5 6 H	42+62#	83 ••	• Swings	013338 8(•	2=21+67 Phase= Pler,encke	,,,,	ORB HI:	610MH 86.= 69	86# 7. 6	FIHE OF H	10R1Z0	N					
	CAHOH	AD + *	1.59N 1.63N	42+03W 37+90W	83 **	* ••*• Swing= Epter.e	013338 81. NCKE	2-21-67 Phase=	LUNAR 15.	6	NORTH	ERN PAR	CAM+RAD+	75 LI	793+2 Etronne	E.FLAMST	SUN )	AZH=	91.6	
	I I Can•n	62 AD•≖	6+91N 1+74H	38 - 164 40 - 118	84 **   	SWINGS	050201 177• 57 KE	2-21-67 PHASE: PLER, ENCK				દ	FIRE OR F	108 I X	ON					
ί3	2 1 CAM+H	62 AD-=	6.94N	38.09W	84 •	Swing=	050201 177•	2-21-67 Phase: Pler, enck	LUNAI 104	R ORB LO.	F=80MM	<b>8</b> Ն₩ Տ•	TIMB CU I	HORIZ	ON					
į <b>3</b>	S & B CAMON	63 AD•=	1 • 2 7 N	42.414	86 •	5 4 4 6 4 5 MING=	115922	2-21-67 PHASE PLER.ENCK	LUNA:	R URB HI. • EMIS•A	610MH NG-= 1	8 ·	CAM+RAD	••	1794.2		SUN	AZMe	71.8	
լ 3	3 2 4 CAM+F	163 +AD • =	1 • 7 7 N	42-40W	86 •	**** #BH1WZ	115922	2 2-21-67 Phase Epler.enck	LUNA = 85	R ORB LO	F#80MM	1 86W 18.	CAH+RAD	• #	1794.2	687500 ! KM=	SUN	A ZH =	71+8	
ر غ	3 å ( CAMet	54   YAD = =	1.724	42.268	86 •	 Swing=	11592	4 2-21-67	∟ <sup>⊍</sup> №# # 85	R ORB HIS	. 61CMP ANG-# 1	1 86¥ 18.	CAM•RAD	• =	1794 • 2	<b>9</b> 0164	SUN	A Z M s	91.8	
ι -	3 2 . LAM•	164 HAD•■	1 • 7 2 14	42.26W	86 •		11592	4 2-21-67 Phase Epler,enck	_UNA = 85	R ORB LO	.F=BOMI ang.=	18.	CAM+RAD		1794.		SU¥	i AZ	1 • •	
ι, .	3 l Cam•	165 HAD•=	å = 6 6 le	42.12%	86 4		11592	6 2-21-67 PHASE EPLER,ENCK	LUNA = 85	R ORB HI	. Alohi Ang.#	M B&W 18.	- CaM∗RaU	NANE **	55K 1794+2	9n164 2 km+	1 19 SU!	) 17 € AZM	•4 11 <u>•</u> 91•6	<b>-,</b> 9

н 21м 41ж	MAG F RULL #	R.PHUIU UR L Main #	PRIN-PT. AT. LUNG.	URB GEI # TIMES⇒⊦ [i=ξSI]	GHT H H SEC HATEDI	M-DA-YR	C A ME	RA-LENS ON SENSOR TYPE	F1LM−E	XPOSURE AND FILTER	TUDE		ΑZ		
ι 3			2N 42.30#		177.	PHA5L.	85.	ORG LO.F.BOHN EHIS.ANG.= 1							
į 3			7N 42+16W		178.	PHA5:	85.	ORB HI. 610MM EMIS.ANG.= 1		- NONE					9
ધ ક			7n 42 • 164		177+	PHASE	■ ar	DRB LU.F=80MM EMIS+ANG.* I		- NnnE					-,88
€ 3			2N 42+03m		178.	PHASE	85.	URB HI. 61DMH EMIS.ANG. # 1		- NONE				17+4 11 AZM# 91+8	10
r 3			20 42.024		178.	PHASE	85.	ORB LO.F.BOMM EMIS.ANG 1		- NONE				17 <sub>4</sub> 5 11 <sub>A</sub> ZH= 91+8	8A
l 3			7N 41.89W		179.	PHASE:	85.	ORB HI. 610HM EHIS.ANG.= 1		* NONE					-, 9
ιι			6H 41.88W		1784	PHASE	85.	URB LO.F. BOMH ENTS ANG. # 1		- None					-,88
<b>હ</b> ક			IN 41.75m		179+	PHASE	<b>85.</b>	URB HIS & 1088 EMIS-ANG. # 3		= NoNE CAH+RAD+=				17+4 12 AZM= 91+8	<b>-,</b> 9
L 3			16 41-746		179.	PHASE	#5.	ORB LO.F=00MM EMIS+ANG.= 1		- NONE				17.5 12 AZM= 91.8	
ι 3			61 41.614		180.	PHASE	85.	ORB HI. 610MM EMIS.ANG. = 1		- NONE					10
ι 3			6N 41.60%		179.	PHAS <sub>t.</sub>	85.	ORB LO.F=80MM EMIS•ANG.= 1							
	CAM.NA	42.2	65 32•1 <b>2</b> n	y Salug,	251.	PHASE:	a 83.	ORB LU.F#80MM EHIS-ANG.# 1 I LAC	4.	CAM+RAD+=	4738+2 K	H .	SUN	AZH# 74.0	

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ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR GET GMT H-DA-YR MIS MAG FR.PHOTO PRIM.PT. URB PRIN. AT ANG. ANG. FWD. AND FILTER TUDE SENSOR OR LAT. TIMES-HR M SEC STON BUIL HaN+HI PT. FR. LAP TYPE LUNG. ( I = ESTIMATED) . . HAIH VFRT K=KH. 2 • 2 - NONE 2717k 4454098 1 3+4 19 -150 L 4 1 132 9-145 29-59W 24 \*\*\* \*\*\*\* 1725U7 5-20-67 LUNAR URB HI # 610MM BEW CAM+RAD+# 4456+2 KM+ SUN .ZM= 86+2 CAH.NAD. = 14.425 29.694 SWING = 188. PHASE = 72. EMIS.ANG. = 9. LAC 76 RIPHAEUS HT. FRAU HAURO : LAC 75 LETRONNE FLANSTO I LAC 93 M. HUMOR. GASSENDI & LAC 94 PITATUS M. NU - NONE 2673K 4381967 340 3=3 19 -+46 . L 4 1 133 18.73N 29.69N 29 4: \* \*\*\* 175540 5-20-67 LUNAR DRB HI. 610MH 86W LAM - RAD -= 4412+2 KM+ SUN AZM= 95+9 SWING# 156. PHASE# 48. EMIS.ANG.# 8. LAH-NAD = 13.91N 27.86% LAC 39 ARISTARCHU & LAC 54 COPERNICUS REINHOLD MESTERN PART OF LAC 40 TINUCHARISTLAMBERT NONE 3003K 37537500 97 4+8 19 L 4 2 136 42.645 27.46# 25 \*\*\* \*\*\* 045435 5\*21-67 LUNAR ORB LO.F=80MM 86# CAM-RAD-= 4742-2 KM- SUN AZM- 70-3 PHASE= 83. EMIS.ANG.= 13. CAM-HAD-# 42-165 38-84W SWING= 295-I LAC 144 SCOTT.5. POLE NEARSIDE >6 LAC 57 KEPLER. ENCKE 1 M>1/2 MOON SPHERE . LAC 111 WILHELM.ELGER.HEE - NONE 2718K 4455738 119 +7 19 CL 4 1 137 14.985 35.288 25 ... ... 052651 5-21-67 LUNAR ORB H1. 610MM B68 CAH+RAD+= 4457+2 KM+ SUN AZM# 84+1 MH.NAD. = 14.405 36.339 Shing= 305. PHASE= 73. EHIS.ANG. = 2. & LAC 94 PITATUS.M.NUBIUH EASTERN PART OF LAC 75 LETRUNNE .F : EASTERN PART OF LAC 93 Mahumor ... GASSENDI - NONE 2471K 4378689 263 1+3 18 -+13 1 4 1 138 13.7UN 36.45W 25 \*\*\* \*\*\* 055724 5-21-67 LUNAR ORB HI. 610HH B6W

- LAN-HAD-= 13-92N 34-43W SWING- 78. PHASE 68. EMIS-ANG.= 3. CAM-RAD-= 4410-2 KM. SUN AZM-94-0
  LASILHN PART OF LAC 37 ARISTARCHU 6 NORTHERN PART OF LAC 75 LETRONNE, FLA
  L4 2 138 13-71N 36-45W 25 \*\* \*\* \*\*\* 055724 5-21-67 LUNAR ORB L0-F=80MM 86W NONE 2471K 33387500 263 1.3 18 --61
- L 4 1 143 14-3.15 41-334 26 \*\*\* \*\*\* 172822 5-21-67 LUNAR ORB H1. 610MH 866 \*\* NONE 2719K 4457377 85 1.0 19 \*\*\*47

  CAM-NAD-\*\* 14-415 42-98\* SWING\*\* 271. PHASE\*\* 74. EMIS-ANG.\*\* 3. CAM-RAD-\*\* 4458-2 KM. SUN AZM\*\* 84-3

  CENTRAL PART OF LAC 75 LETRUNNE, FLAMSTD 1 CENTRAL PART OF LAC 93 M. HUNOR. GASSENDI 6 5. M. PART OF LAC 57 KEPLER, ENCKE
- L 4 1 144 14-U3N 41-76W 26 ++\* ++\* += 175854 5-21-67 LUNAR ORB HI + 610MH B&W -- NONE 2469K 4375410 280 +5 19 --30

  CAM-NAD-\* 13-9WN 41-U1W SWING= 94+ PH35E= 70+ EM15+ANG+= 1+ CAM-RAD+# 4408+2 KM+ SUN AZM# 94+3

  CENTRAL PART OF LAC 57 KEPLER:ENCKE 1 CENTRAL PART OF LAC 39 ARTSTARCHU & N+ W+ PART OF LAC 75 LETRONNE+FLA
- L 4 1 149 15+055 48+76% 27 \*\*\* \*\*\* 052946 S=22\*67 LUNAR ORB HI: 610MM 86% NONE 2720K 4459016 127 +7 18 --49

  CAN-NAU-\* 14-465 49+64% SWING\* 313\* PHASE\* 74\* EM15\*ANG\*\* 2\* CAM-RAD\*\* 4459\*2 KM\* SUN AZM\* 84\*4

  LAC 75 LETHONNEF; EAC 74 GRIMALDI.B; EAC 92 BYRGIUS; OA; EAC 93 M; HUMOR\*\*, GASSENOI # LAC 56 HEVELIUS\*REIN
- L 4 2 1504 12+7504 49+294 27 \*\*\* \*\*\* 060012 5-22-67 LUNAR ORB LO.F#AOHH B6W NONE 266BK 33350000 234 1+3 18 -+11

  CAM-HAD+# 13+71N 47+59W SWING# 48\* PHASE# 70\* EHIS+ANG\*# 3\* CAM-RAD\*# 4407\*2 KM\* SUN A7H# 93+5

  LAC 57 KEPLEK:ENC 1 W>1/2 MOOH SPHERE; LAC 97 BYHGIUS,DA; LAC 11 J.HERSCHEL:JURAS-BOUGUFR & LAC 58 COFTRNICUS\*RE

" NONE 110K 1375000 347 1+2 17

SUN A78= 92.6

		,					PAGE 125
	#	PT. URB GET GHT # TIMES-HR H SEC UNG. (=ESTIMATED)		TYPE	NAS PIETR	MeNaNI PT.	ANG. ANG. FWD FR. LA
ι,	1 2 135 42.4us 48.1 Camenade 42.ujs 59 Lac IIU Schickand,laci	89% 28 *** *** 165827 *07% SWING= 293. RSIX I D>1/2 F	5+22+67 LUNAR Phase= 840 Moon sphere	R ORB LO.F=BOMM RG EMIS-ANG.= 12.	CAH-RAD.	37637500 9 4750+2 KH+ SU	5 4+3 17 -, e: N A7H= 7Z+8
	CAM+RAD+# 42+335 65+ LAC IIU 5CHICKARD+LAC+	•80W 5WING= 296. ROIX 1 01/4 HO	PHASE 85. PHASE 85.	C URB LO.F.BOM B. EHIS+ANG.* 13.	CAM-PAD-	3012K 37650000 94	9 4+8 17 -,+: N AZH= 7Z+3
Ĺ	CAM-WAD-# 14-145 69. AC 74 GRIMALDI.8 1 W>1	SWING= 288. 1/2 MOON SPHERE : EAC &	5"23=67 LUNAR •76° ≃ PHASE • PHOCYLIDE:	ORB LO.F=BOHM B& EMIS.ANG.= 2. LAC 22 SE.GERAR	CAM-R/D.	2722K 34025000 103	3 +9 17 -, sa N A7M∝ 84+9
	CAM+NAD+# 43.00N 64. LAC 23 RUMKER.SHARP	• ZZ# SWING= 271• • 6>1/2 M	PHASE# 76. PHASE# 76.	EHIS ANG 6.	H NONE CAM-RAD.=	2871K 35887500 108 4610•2 kM• SUN	9 2 2 2
		20W SWING= 297.	5*24*67 LUNAR PHASE= 86. UON SPHERE	ORB LO.F=80MM B69 EMIS+ANG.= 13.	W - NONE CAMERADES	3011K 37637500 100 4750•2 KH• SUN	F AZH # 73+1
	. NE 451 m • CAM • NAD • 12 • 53N 33 • N • 12 • N • N • N • N • N • N • N • N • N •	95h SWING# 248. E. PART OF LAC 57 KEPI	PHASE 73. LER.ENCKE	ENIS ANG I.	W - NONE CAM+RAD+=	109K 1786A9 342 1848+2 KM+ SUN	! +6 17 -,** A7H= 92+4
	- G- / An - G-	74 69 ••• ••• 010625 956 Stings 238• LAC 57 KEPLER,ENCKE		& N. W. C	1.07 or	141645 Ku+ 20W	A2H= 92=4
		4W 69 ••• °••• Olu63U 93W Swing= 255. E• Part of Lac 57 KEPL	8-17-67 LUNAR PHASE= 73. Ler:Encke	ORB HI. 610MM B&W EHIS.ANG. # I.	T NONE	11NK 180328 349 849+2 km+ SUN	•9 17 ~• 7
	∠ 105 12.87N 3U.99 CAN:HAD:= 12.82N 3U.99 H: E: PART UF	SW 69 ••• ••• D10630 93W SWING≖ 247. LAC S7 KEPLER,ENCKE	8-17-67 LUNAR PHASE# 73.	URB LO.F=AOMM A&# EMIS.ANG.= 1.</td><td>CAM#RAD## 1</td><td>110K 1375000 341 849+2 KH+ SUN</td><td>1.0 17 ~:87 A7M# 92.5</td></tr><tr><td>ĻÞ</td><td>1 166 13016N 30098 CAMONADO = 13009N 3009 No E</td><td>1W 69 *** **** 010635 90W Swing= 258. E* Part of Lac 57 Kepl</td><td>8-17-67 LUNAR PHASE= 73. ER.ENCKE</td><td>ORB HI. SIDMM REW EMIS-ANG. # 1.</td><td>- NONE CAM+RAD+= 1</td><td>110K 180328 353 849+2 kM+ SUN</td><td>1+2  7 8 AZM= 92+6</td></tr></tbody></table>			

CAM-NAD-= 13-10N 30-90N Swing= 252- PHASE= 73- EMIS-ANG-= 1- CAM-RAD-= 1849-2 KMb N. W. PART OF LAC SE COPERNICUS. REINHOLD L 5 | 167 | 13.46N 30.89W 69 ... 69 ... 010640 8-17-67 LUGAR ORB HI. 610MM NEW CAM-HAD-# 13-37H 30-88# SWING= 261. PHASE= 73. EMIS.ANG. 1. " NONE TICK 180328 355 1-4 17 N. E. PART UF LAC 57 KEPLER. ENCKE CAH+RAD+# 1849+2 KH+ SUN AZH# 92+7

L 5 2 166 13-17N JU-92W 69 \*\*\* \*\*\* 01U635 8-17-67 LUNAR ORB LO.F. ROMM R.G.W.

. !

# 2104 H12	KULE	R.PHOIU ( OR EAT Main M		#	GET GMT TIMES-HR M SEI (TEESTIMATED)	H=DA=YR	CAM	ERA-LENS OR Sensor Type		XPOSURE AND FILTER	TUDE PR	ILT SUN S ANG. ANG. FR.	51Dε. FWD.
ιδ	2 167 Cam.nau	7 13-47N 9+# 13+37N N+ E+ PAR	34.489W F 30.88W H UF LAC	69 ( 57	SWING= 254. KEPLER,ENCKE	8-17-67 PHASE=	LUNAR 73.	EHIS.ANG. = 2	? •	CAM D.S.	100 - 44	VERT	8. \$ -,88

TUTAL PHOTUS IN THIS GROUP . IIB

IHESE IND SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS. \$# ALMOST UNUSABLE PHOTOS.

ILLI ANGLES: AZIMUTH OF DIRECTION OF TILTIAZ) & VERTICAL TO CAMERA AXIS

(\*);(\*);(\*);(\*), OR(\*)) # NO INFO # APPROXIMATELY NEXT TO MAGN, R\*BRACKET MOUNTED; G\*\* CAM\* ON GROUND

CAMERA-LENS AS FOLLOWS: S\*\*A\* \* SUPER WIDE ANGLE LENS; EKTR#EKTAR 2.8 LENS;

H58# MASSELBLAD; MAURE MAUHER; 4P,268,45 # ZEISS LENS(PLANAR,BIOGEN,SONAR); FDCAL LENGTH(MM) & MAX\*F=OPENING

10\* AS EXPOS SPEED # 1/1000 (OR \*\* TWO ZEROS)

FUR LUNAR ORBITER K AFIER ALTITUDE EQUALS KILOMETERS

CULUMN MEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG\*NEG\*\* AT PP IF ALT NOT O\*O

- MIS HAG FR. PHULU PRIN. PT. URB GE T GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. 44 TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. ( = ESTIMATED) TYPE MEN-MI PT. FR. LAP K=KM. VERT g. g
- E 1 2 134 1-91N 15-13H 75 000 000 195501 8-25-66 EUNAR ORB EU+F=80MM B6W NONE 56K 700000 232 11+8 11 -.00 CAM+HAD+= 2-13N 14-84W SWING= 51. PHASE= 70+ EM15+ANG+= 11+ CAM+RAD+= 1795+2 KH+ SUN AZH= 88+8 S+ E+ PART OF LAC 58 COPERNICUS,REINHOLD
- L 1 2 138 U•75N 17-28# 79 ••• ••• 094136 8-26-66 LUNAR DRB LU.F=80MM 86# NONE 48K 600000 208 8•9 16 -•••

  CAM·NAD·\* •97N 17-176 SXING= 26+ PHASE= 70+ EMIS•ANG+= 9+ CAM•RAD•\* 1787•2 KM+ SUN A7M= 88•6

  S• E• PART OF LAC 58 COPERNICUS•REINHOLD

- L 3 2 149 J-19N 24-27H 84 \*\*\* \*\*\* 025340 8-27-66 LUNAR ORB LO.F=BOMM B&W NONE 47K 587500 195 9-5 17 -.\*\*

  CAM-NAD-\* -44N 24-2DH SWINGW 14. PHASE\* 7D. EMIS-ANG.\*\* 10. CAM-RAD-# 1786-2 KM. SUN AZM= 88-5

  5- B- FART OF LAC 58 COPERNICUS.REIMHOLD & N. W. PART OF LAC 7A RIPHAEUS HT.FRAU HAURO
- L 1 4 150 1.07N 30.46W 85 ... +\*\* 061838 8-27-66 LUNAR ORB LU.F#80MM 86W NONE 55K 687500 143 14.6 13 -...
  CAN.NAD.# 1.44N 30.74W SWING# 321. PHASE# 86. EMIS.ANG.# 15. CAM.RAD.# 1794.2 KN. SUN AZM# 88.7
  >+ E. PART OF LAC 57 KEPLER.ENCKE & S. W. PART OF LAC 58 COPERNICUS.REINHOLD
- L 1 2 151 U+1U5 23.64W 86 \*\*\* \*\*\* 094725 8-27-U6 LUNAR ORB LO.F=80MM 86W NONE 44K 550000 1 14.9 21 \*\*\*\* CAM+MAD+\*\* +495 23.65% 5WING=189. PHASE=\* 70. EMIS+ANG.\*\* 15. CAM+RAD+\*\* 1783+2 KM+ 5UN AZM= 88.3

  H+ #+ PART UF LAC 76 RIPHAEUS MT.FRAU MAURO 6 SOUTHERN PART OF LAC 48 COPERNICUS.REINHOLD
- L 2 | 1124 3-265 | 11-688 79 \*\*\* 131712 | 11-22-66 | UNAR ORB HI. 610MM 86W NDNE 42K 68852 15A \*2 16 -.\*

  CAN-NAU-# 3-27N 17-68W SWING# 327. PHASE# 75. EMIS-ANG.# D. CAM-RAD-# 1781-2 KM. SUN AZM# 91-3

  5- E- PART OF LAC 58 COPERNICUS, REINHOLD

*	H MAIH	• # TIMES LONG. (1mES	-HR M SEC Fihateui	SENSOR Type	AND FILTER	TUDE PRIN. M=N.HI PT.	TILI SUN SIDE, AZ ANG. ANG. FMD. FR. LAP VERT R. R
ί2	Z 112 3.20N CAM.4AD.= 3.26N	11.674 5411	P• 131712   1-22-66   D= 287• PHASE= -AC SB COPERNICUS,RI	LUNAR ORB LO.F=80Mm 75. Emis.ang.= o Eluholo		42K 525aan 1781+2 KH+	149 +1 16 ++ SUN AZH= 91+3
ι 2	1 137 4.9uN CAM-MAD+= 4.89N	27 • 18m Swin	P• 030715 11-23-66 ( i= 92• PHASE= AC SB COPERNICUS,R	LUNAR ORB HI. 610MM 82. EMIS-ANG.= I EINHOLO	BL# + NONE • CAM•RAD•#	51K 836N7 1790+2 KM+	283 [+3 7 -,** SUN AZH= 91+0
ι 2	2 137 4.90N CAH-HAD-= 4.89N	27.176 SWIN	•• U3091 <sup>5</sup> 11-23-66   5= 97• PHASE= -AC 58 CUPERNICUS.H	LUNAR ORB LO.F.#80MH 82. Emis.ang.# 1 Einhold		51K 6375n0 1790+2 KH+	
ι 2	1 138 1+259 CAM+N3D+= 1+259	13.29h 5H1H	• 101115 11-23-66 1 •= 252• PHASE* -AC 58 COPERNICUS.RE	LUNAR ORB HI, 610MM 67. Emis.ang.= 1 Einhold	864 - NONE • CAM•RAD•#	44K 72131 1783•2 KM•	83 1+1 25** SUN AZH= 91+8
	CAM+HAD+= 1+24H	13+29W SWIN S+ E+ PART OF	i= 247. PHASE= .ac 5b coperHicus.re		• ¿AM+RAD+#	44K 550000 1783•2 KH•	79 1+2 25** SUN AZM= 91+0
	CAM. HAU. = 1.22N	13.18# SWIN S. E. PART OF	SE 254. PHASES. AC 58 COPERNICUS.RE		· CAH-RAD.=		85 1+2 25 5 SUN AZM= 91+0
ί2	∠ 139 1.42N CAH.HAD.= 1.42N	13-17W Swin	:= 101117 11-23-66   := 249. PHASE= .ac 58 copernicus.re	UNAR URB LO.F#80MM 67. EMIS.ANG.& 1 EINHOLD	R&W → NANE • CAM•RAD•=		81 1+3 25 -+87 SUN AZH= 91+0
	LAII- AD+= 1+19N	13.060 SWIN 5. E. PART OF	= 255. PHASE= AC 58 COPERNICUS.RE	_	• CAM•RAD•=	45K 73770 1784•2 KM•	87 1+4 25 5 SUN AZM= 91+0
t 2	2 140 1-25N CAM-NAD-# 1-19N	13.054 SWIN	P+ 101119 11-23-66 L D= 251+ PHASE= .AC 5B COPERNICUS_RE	LUNAR ORB LO.F.BOMM 57. EHIS.ANG.= 1 EINHOLD		45K 582500 1784•2 kH•	83 1.4 2587 SUN AZH= 91.0
	CAH . HAU . # 1 . 17N	12.94m SWIN S. E. PART UF	EM 256. PHASEM AC 58 COPERNICUS.RE		: CAM-RAD-m	45k 73770 1784+2 KM+	88 1+5 25 -+ 5 SUN AZM= 91+0
	CAM+NAD+= 1+1711	12.93W SWIN 5. E. PART OF	E 252. PHASE AC 58 COPERNICUS, RE		- CAM-RAD-#	45K 5625ND 1784•2 km•	84 1.5 2587 Sun Azma 91.0
ι 2	1 142 1-14N CAH-HAD-= 1-14N	12.82W 5.1N	+ 101123 11-23-66 L = 257. PHASE= AC 58 COPERNICUS.RE	.UNAR URB H1. 610HM 67. EM15.ANG.= 2 .INHOLO		45K 73770 1784•2 KH•	89 1+6 25 +, 5 SUN AZH# 91+0

# #	Ħ	# TIMES- Long. (FeEST	IMATED)	SENSOR Type	AND FILTER	ALTI SCALE AT TUDE PRIN. M=N.HI PT. K*KM.		FWO.
	CAM-NAD-# 1-14H	12.814 SWING	* 254. PHASE: AC 58 COPERNICUS.		· CAM+RAD+#	45K 562500 1784•2 KH•	85   1+7 25 SUN AZM= 91+0	87
L 2	CAM = #4D = # 1 + 12N	12.65W 85 *** *** 12.69W Swing 5. E. PART OF L	= 258. PHASE	LUNAR DRB HI. &10MM * 67. EMIS.ANG.= 2 REINHOLU		45K 7377G 1784+2 KM+		
( 2	CAM+NAD+= 1+12N	12.64% 85 SWING 5. E. PART OF L	* 255 • PHASE:	LUNAR ORB LO.F.BOMM - 67. EHIS.ANG.» Z REINHOLD		45K 567500 1784+2 KH+	•	-,87
L Z	CAM - HAD - = 1 - 1 - 1 - 1 - 1 - 1	12.53m 85 12.57m Swing 5. E. Part of L	259. PHASE	LUNAR ORH HI. 610HM = 67. EMIS.ANG.= 2 REINHOLD		45K 73770 1784•2 кн•	-	<b>-,</b> 5
į 2	CAM.NAD.# 1.69N	12.57W 5WING S. E. PART OF L	• 256 • PHASE •	LUNAR ORB LO.F=80HH = 67. EMIS.ANG.= 2 REINHOLD		45K 5625n0 1784+2 KM+		
ι 2	CAM+NAD+= 1+07N	12.40W 85 4 12.45W 5wing 5. E. Part of L	■ 260 • PHASE ■	LUNAR ORB HI, 610MM : = 67. EMIS.ANG.# 2 REINHOLU	• CAM•RAD•=	45K 73770 1784+2 KM+		-
ι 2	CAM-NAD 16H	2.390 85 swing 12.44W Swing 5. E. PART OF L	257. PHASE	LUNAR ORB LU.F=80HH   - 67. EHI5.ANG.W 2 REINHOLU		45K 56750D 1784+2 KH+		87
ι 2	CAM-NAD.= 3.77N	7.49# 86 Switte 27.47% Switte 5. N. PART UF L	∙ 84. PHASE:	LUNAR ORB HI: 610MH   T7. EMIS-ANG.= I	· · ·	45K 73770 1784+2 KM+		
	CAM.HAD. S.76N	27-46W SWING S. W. PART OF L	YI. PHASE: NC 58 CUPERNICUS, R		• CAM+RAD ■	45K 5625NU 1784+2 KH+		-,••
L 2	CAH . KAD . = 3.74N	27-37W 86 SHING 27-35W SHING 5- W. PART OF L	* 83. PHASE=	LUNAR ORB H1. 610MM F 77. ENIS-ANG.= 1. PEINFOLD		45K 73770 1784+2 KM+		
ι 2	CAN.NAD.= 3.74N	7.36m 86 27.34m 5.1NG 5. W. PART OF L	91. PHASE	LUN IR ORB LOSF#80MM F 77. EMIS+ANG.# 1 EINHOLD		45K 562500 1784•2 KM•		87
ι, 2	CAN+HAD+= 3+/2N	7.25m 86 *** *** 27.23w Swing 5. w. Part uf L	: 82∙ PH≰S⊧≖	LUNAR ORIS HI. 610MM E 77. EMIS-ANG.= 1. EINHOLD	GEW - NONE CAM-RAD+=	45K 73770 1784•Z KH•	273 +7 12 SUN AZM= 91+2	6

SION	RULL OR LAT+ H				ALT; SCALE AT TUDE PRIN. M=N=M; PT. K=KM.	AZ ANG. ANG.	F#D. LAP
L 2	CAM-HAD . 3.72N 27.22W	SHING= 91+	11=23-66 LUNAR ORB LO+F=80HH PHASE= 77• EMIS+ANG+= 1 PERNICUS,REINHOLD		45K 562500 1784+2 KM+		-,87
ι 2	CAR.NAD.= 3.69N 22.15W	Swing= 80.	11-23-66 LUNAR ORB HI. 610MM Phase= 77. Emis.ang.= 1 Pernicus,heinhold		45K /3770 1784.2 KM.		-: 6
լ 2	CAM-HAD:# 3-69H 27-108	5 1 1 92 +	11-23-66 LUNAR ORB LO.F=80MM PHASE= 77. EMIS.ANG.≃ ! PERNICUS.REINHOLD		45K 552500 1784•2 KK:		-,87
ί 2	CAH-HAD+# 3-67H 26-99H	5w1NG= 77.	11-23-66 LUNAR ORB HI. 610MM Phase= 77. Ehis-ang.= 1 Pernicus-reinhold		45% 73770 1784•2 25•		6
į, 2	CAH+HAD+# 3+67N 26+98W	5wing= 92.	11-23-65 LUNAR URB LO.F=80MM Phase= 77. EM15-ANG.= ( Pernicus,reinhold		45K 562500 1784+2 KH+	•	
ر ک	CAM-HAD-= 3.65N 26.87m	Swing= 73.	l1-23-66 LUNAR ORB HI. 610MM Phase= 77. Emis.ang.= L Pehnicus.reinhold		45K 73770 1784.2 KM.		
լ 2	CAM+HAD+= 3-64N 26-87%	5win6= 93.	II-23-66 LUNAR URB LO.F=89MM PHASE= 77. EMI5-ANG.= E PERNICUS.REINHOLD	BGW ™ NONE 7• CAH•RAD•≡	45K 562500 1784+2 KM+		<b></b> 87
L 2	CAM+HAD+# 3+62N 26+75W	Swing 63.	II-23-66 LUNAR ORP HI, 610HH PHASE= 77. EMIS.ANG.c ( PERNICUS.REINHOLD		45K 7377U 1784•2 KH•	•	
ί 2	CAH+HAD+# 3+62N 26+75H	Switte 96.	11-23-66 LUNAR ORB LO.F=80H:: PHASE= 77. EMIS.ANG.= ( PERNICUS.REINHOLD		44K 550000 1783-2 KM+		
į, 2	CAM-HAD-# 3-6UN 26-64#	Sw1NG= 36.	11-23-66 LUNAR ORB HI. 610HM PHASE* 77. EMIS.ANG.* ( PERBICUS.REINHOLD	•	44K 72131 1783+2 KH+		-, 6
ί2	CAM+NAD+# 3+60H 26+63W	Sw186= 117.	II-23-66 LUMAR ORB LO.F.BOHH PHASE= 77. EMIS.ANG.= : PERNICUS.REINHOLD		44K 55nnn0 1783•2 KM•		
ι 2	CAH-HAD-# 3-37N 27-46n	Swing= 90.	11-23-66 LUHAR URB HI, 610MM PHASE* 76. EMIS.ANG.= PERNICUS.RFINHOLO				-,00

Ħ	# MAIN	LUNG. (	F=ESTIMATED]		TYPE		ALTI SCALE AT TUDE PRIN. H=N.HI PT. K=KM.	ĄZ	L T SUN S ANG. ANG. FR. VERT	FMD. LAP
L 2	2 154 3.38N CAM.HAD.= 3.37N	27.46%	>#1NG= 102.	ll=23+66 LUNAR Phase# 76+ Ernicus+Reinho	EMIS.ANG 1.		44K 550000 1783.2 KM.	293 SUN	+6 14 AZH# 91+2	-,++
L 2	1 455 J•35N CAM•HAD•= J•35N	27+35%	5 1 1 NG = 93.	II-23-66 LUNAR PHASE* 76. ERNICUS.HEINHOI	ENIS-ANG 1		44K 72131 1783+2 KM+		•5 14 A7M= 91•2	
	2 155 3.35N CAH:HAD:= .*.35N	27.348 S. W. PART O	SWING= 10S. F LAC 58 COP	PHASE= 76. ERNICUS,REINHOL	EMIS-ANG.= 1. D	CAM+RAD ==	44K 550000 1783+2 KM+			
L Z	1 156 3.33N CAM-HAD.= 3.33N	27 • 2 3 W	SWING= 9D.	11-23-66 LUNAR PHASE® 76. ERNICUS,REINHOL	EMISANC . D.		44K 72131 1783•2 KM•			
į 2	2 156 3+33N CAM-NAD+# 3+32N	27+22#	>*ING=    0°	11-23-66 LUNAR PHASE= 76. ERNICUS,REINHOL	FMISANG n.		44K 550000 1783•2 KH•			
L Z	1 157 3+34N CAN+NAD+# 3+30N	27+12n S	Swing= 91.	11-23-66 LUNAR PHASE= 76. ERNICUS,REINHOL	ENIS. No - 0		44K 72131 1783•2 KH•			
L 2	2 157 3+3UN CAM+NAD+= 3+3UN	27-11#	5%1NG= 12).	ll=23=66 LUHAR Phase= 76. Ernicus,reinhol	ENISANG. # C.		44K 558000 1783•2 KH•			
	1 158 3+28N CAM+NAD+= 3+28H	27.DOW S. N. PART OF	SWING= 92. F LAC 50 COPE	PHASE 76. ERNICUS,REINHOL	EMIS.ANG.= 0.	CAM+RAD+#	44K 72131 1783=2 KH+	283 SUN	+1 14 A7M= 91+2	<b></b> 5
	2 158 3+28N CAM+NAD+= 3+28N	26+99H 5 5+ H+ PART OF	SWING= 146. F LAC 58 COPE	PHASE 76. RNICUS,REINHOL	EMIS.ANG. # 8.	CAM-RAD-m	44K 550000 1783•2 km•			
	1 159 3+25N CAH+HAD+= 3+25N	26+88m S 5+ 4+ PART OF	SWING= 227. F LAC 58 COPE	PHASE 76. ERNICUS.REINHOL	EHIS.ANG.= 0.	CAM+RAD . m	44K 72131 1783+2 KM+			s
	2 159 3.26N CAM.HAD.= 3.25N	26 87W 5	SWING= 199. F LAC 58 COPE	PHASE 76. RNICUS, REINHOL	EMIS.ANG.= Q. D	CAM+RAU.=	44K 55nnno 1783+2 kM+			
ι 2	1 160 3.23H CAM.NAD.= 3.23H	26+/61/ 3	PWING# 267.	II-23-66 LUNAR PHA5E 76. RNICUS.REINHOL	ENITS.ANG. = 0.		44K 72131 1783+2 KH+	99 SUN /	+1  5 AZH= 91+2	-, 4

NONE 52K

CAM+RAD+m 1791+2 KH+

6 NORTHERN PART OF LAC 74 RIPHAEUS MT.FRAU MAURO

85246 107 1+7 29

SUN AZME 90.5

L 2 1 166 GOUBN 19.68# 91 \*\*\* \*\*\*\* 070357 11-24-66 LUNAR ORB HI. 610MM RG#

Swings 275.

SOUTHERN PART OF LAC 58 COPERNICUS REINHOLD

CAM-HAD. . 10N 19.736

=	,	rac sa cobernicaz*keinhofo		ORIGINAL PAGE R	, 10 ··	PAGE 132
н	MAG FR.PHOTO PRIN.PT. GRB NULL OR LAT. # HAIN LONG.	(;=E21INATED)	TYPE	AND FILTER	TUDE PRIN. AZ M#M•HI PT.	ANG. ANG. FWD. FR. LAP VERT 8. 8
į Ž	4 16Q 3+23N 26+75W 87 CAH+HAD+= 3+23N 26+75W 5+ W+ PAR	*** **** 170542 11-23-66 LU Shing= 233. PHASE= T OF LAC 58 COPERNICUS, REI	NAR ORB LO.F.BOMM 76. EHIS.ANG.E NHOLU	BON - NONE O- CAH-RAD-H	44K 550000 65 1783•2 KM• SUN	+2 15 -487 AZH= 91+2
ί2	i ioi 3.20N 26.64m 87 Cam.nad.= 3.21N 26.64m 5. m. par	••• •••• 170543 11-23-66 LU 5wing= 269• PHASE= T OF LAC 58 COPERNICUS,REI	76. ENIS.ANG. =	B6₩ ™ NONE. D. CAM•RAD•#	43K 70492 100 1782+2 KM+ 5UN	±2 15 3 A <sup>7</sup> M# 91+2
ι 2	Z 161 3.21N 26.63W 87 CAM-HAD.= 3.28N 26.63N S. v. PAR	••• •••• 170544 11-23-66 LU Swing= 247. PHASE= I OF LAC 58 COPERNICUS.REI	ZA FMISAANZ.	96W - NONE 0. CAM-RAD-=	43K 537500 78 1782+2 kM+ SUN	•3 1587 AZH= 91•2
į Z	I 162 5•48N ZU•9UN 89 CAH•NAD•# •98N Z0•0IM CENIHAL PARI	••• •••• 000543 11-24-66 LU Swing= 177• HASE# T UF LAC 58 COPERNICUS,REI	81 EHIS.ANG. # 7	858 - NONE 4. CAM-RAD.=	46K 7541U 36B 1785+2 KM+ SUR	69+4 25** AZM= 93+0
		OF LAC 58 COPERNICUS.REI	81. EMIS.ANG. 7 NHOLO	4. CAM.RAD.m 6 LIMB OH HORIZ	1785+2 KM+ SUN ON	AZH# 93=0
	I 163 V.17N 20.10W 91 CAM.NAU.= .19N 20.13W SOUTHERN PART OF LAC 58	C. C. Cantidos in Estatoco	6 NOTTH	EKN PAKI UF LAC 74 R	CTPHAEUS MT <sub>a</sub> prau maui	Rο
	2 163 G-17N 2G-09W G1 CAM-NAD-# -18N 2G-13W SOUTHERN PART OF LAC 58		3 NON / N	ENG PART OF ERE 34 M	TIPHAEUS HI FRAU HAUI	M O
l Z	1 164 U-14N 19.96W 91 CAM-NAD-= -16N 20.00W	*** **** 070352   15034-44   111	NAR ORB HI. SIONM	B&W - NONE	51K 83607 108	1.5 28 6
	Z 164 U+15N 19+95W 91 LAM+HAD+= +16N 19+99W SOUTHERN PART OF LAC 5A	SMING= 271. PHASE= ( COPERNICUS, KEINHOLD	NAR URB LD-F=80MM 63. EMIS-ANG.# 6 NORTHI	BGW - NONE  - CAM-RAD-= ERN PART OF LAC 76 R	51K 637500 103 1790•2 km• SUN A TPHAEUS HT,FRAU HAUF	1+5 28 87 AZM# 90+5 RO
	1 165 Delin 19:82A 91 CAM.HAD.= 13N 19:86H SOUTHERN PART OF LAC 58	••• ••• 070355 11-24-66 LU 5%1NG= 275. FHASE= 6 1 C <sup>O</sup> PERNICUS,REINHOLD	NAR ORB HI. 610MM 63. EMIS.ANG. 4 63. EMIS.ANG. 4	R&M = NONE 2, CAM,RAD.= ERN PART OF LAC 76 R	51K 83607 107 1790.2 km. SUN / 1194AEUS HT.FRAU MAUF	1+6 Z <sup>9</sup>
ι 2	2 165 0-12N 19-81W 91 CAM-NAD-= -13N 19-86W	*** **** 870355 11-24-66 LUN Swing* 271* PHASE= 4 COPERNICUS, REIMHULD	NAR ORB LU.F=80MH	BEN - NONE	51K 637500 103	1+6_2987

PHASE= 63. EMIS+ANG.= 2.

STUN		U	н ;	AT.		zi.	TIMES-H	R M SEC	H-UA-YR		SENS	SOR		FIL				TUDE	PT	AZ	AHG. FR.	ANG.	₽#0. LAP
L Z	2 ( Ad +1	166 Nad==	HERN	PAR	19.67W 19.72\   UF L	91 4C 58	SWING=	070357 271• CUS•REI	LL-24-66 PHASE	LUNAR 63.	OR8 EHI	LD.F.	:80MM ; . = 2 !DRTHE	8&W RN	C Part	- AM+RA Of LA	HONE D•# C 74	57). 179) • 2	650000 KM+	103 NUS IAH U	) • 8 4 Z M ==		
<b>.</b> 2		NAD .=	• 1	17N	19.59	¥	SWINGE	274.	11-24-66 PHASE: NHOLD	63.	EHI	S.ANO	2		c	AH . ITA	0 - e	52K 1791+2 RIPHAEU!	KM•	SUN	AZM#		<b>~,</b> 5
L 2		NAD . =	• •	.7N	19.58	M	Swing=	271.	11=24=66 PHASE NHOLD	63.	EMI	[5 . AN	,. <b>.</b> 2		c	AM-RA	D • =	1791+2	KM •	SUN	AZHe		
L 2		NAD . =	•	иРс	19.45	*	SwlieG=	274.	LI-24-66 PHASE: NHOLD	63.	EHI	IS-ANO	, = 2		c	AM . RA	D	52K 1791•2 Riphaeu	K M o	SUN	AZHE		<b>~.</b> 5
ί, 2		NAD . =	• (	UNN	19.441	nt	SWING	271.	PHASE	63.	EH!	15.AN	. 2		C	AHTRA	U . m	1791 • 2	KH.	SUN	AZM#		
Ł ż		NAD . =	•	a I N	19.31	N	5พไฟ6≖	274.	PHASES PHASES AU MAURO	63.	E M I	[ 5 . A N (	.= 2		c	AMeRa	D • =	1791+2	<b>к</b> Н •	SUN	2 + 2 A Z M =		-, 5
L 2		NAD . 4	• •	ı N	19+300	4	24THC=	271.	L1-24-66 PHASE: AU MAURO	63.	EMI	ES . ANO	2		c	AH . RA	D • =	1791 • 2	KH •	รบพ	2+2 A 2H#		
L		HAD . B		25	19+17	ie	-DHING	274.	PHASE PHASE QRU MAURO	z 63.	EM:	15.AN	j 2	?•	c	AMeRa	D • =	1791.2	KH .	SUN	2+3 A7H=		4
į Ž		NAD .		925	19-16	N	Swing.	271.	11-24-66 Phase Pau Mauro	63.	EΜ	15.AN	5.E 2	2.	c	AMARA	1D = =	1791+2	KΜ•	SUN	AZMO		-,87
ι 2		NAD		225	20.16	<b>r.</b>	5wing.	269.	PHASE PHASE NAUHO	62.	EΜ	IS.AN	G.= 2	2,	•	AM.R	D	1793.2	KM.	SUN	AZHe		
ι 2	CAH.	HAD . "		255	20.01	lite .		269.	11-24-66 PHA5E	62.	ξM	15 . AN	G.# 2	2 •	c	AMORA	D • •	1793+2	<b>к</b> М •	รบพ	AZH#	30 90.3	

[ 2 2 173 U+3\S 19+80# 92 ++\* +\*\* 103259 | 1-24-66 | UNAR ORB | LU+F=80HH R6# - NONE 55K 687500 101 2+3 30 -+87 CAM-HAD-= -285 19-874 SWING= 269. PHASE= 62. EMIS-ANG.= 2. CAM-RAD-= 1794-2 KM-SUN AZH# 90.3 HORIHERN PART OF LAC 76 RIPHAEUS MI, FRAU MAURO & SOUTHERN PART OF LAC 58 COPERNICUS, RFINHOLD

NORTHERN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO 6 SOUTHERN PART OF LAC 58 COPERNICUS.REINHOLD

#	HAG FK.PHOID PRIN.PT. DRB  RULL UK LAI. # 1  RULL UK LAI. (  BAIN LUNG. (	=F2.LWW.LED)	SENSON Type	AND FILTER	TUDE PRIN, AZ H=N,HI PT, KaKH+	ANG. ANG. FAD. FR. LAP VERT 8. 8
		TIPHACUS HI PRAC HAURU	& SOUTHERN	PART OF LAC SH C	OPERNICUS PREINHOLD	
ι 2	2 175 0-365 19-498 92 00 CAM-NAD-= -345 19-57W NORTHERN PART OF LAC 76 R	* *** 103304 11-24-66 LUI SWING 269 PHASE 6 IPHAEUS MI,FRAU MAURO	12. EMIS.ANC 3.	# A M - CL + D		2+6 3187 A7Mm 90+3
		IPHAEUS MT.FRAU MAURO	6 SOUTHERN	CAM+RAD+# PART OF LAC 5g C	OPERNICUS.REINHOLD	AZM# 911.2
		IPHAEUS HT.FRAU MAUNO	6 SOUTHERN	CAM+RAD+# PART OF LAC SH C	1795.2 KH. SUN DPERNICUS.REINHOLD	A7Hm 90.2
	2 178 U+465 19+03W 92 ++ CAH+HAD+= +445 19+12h HORTHERN PART OF LAC 76 R	THINCUS HISTORY HAUND	6 SOUTHERN	PART OF LAC SA C	OPERNICUS * HE INHOLD	
		SHINGE 276 PHASES I IPHAEUS MT.FRAU MAURO	IS. EMIS:ANG.= 70. 6 SOUTHERN	CAM-RAD. = PART OF LAC SR C	1784+2 KH+ SUN OPERNICUS.REINHOLD	AZH= 91+3
L 3	1 122 1+U7N 21+91W 75 CAM+HAD+= 1+54N 21+72W SOUTHERN PART	* **** 214557 2-19-67 LUN SWING= 1. PHASE# 7 OF LAC 58 COPERNICUS.REIN	IAR URB HI. 610MM BGI 72. ENIS.ANG.= 18. IHOLO	# = NONE CAM⊕RAD⊕#	48K 78589 202 1787•2 км• SUN	17+6 12 -4** AZHw 91.7
		OF LAC 58 COPERNICUS.REIN	/Z. EMI5.ANG.= 18. IHOLD	CAM . RAD . s	1787+2 KM+ SUN	AZM# 91+7
į. <b>3</b>	1 123 7.67H 27.57W 76 CAM.NAD.= 3.38H 27.59H HESTERN PART U	* •••• Oli317 2-20-67 LUN Swing= 169. PHASE# 8 F Lac 58 Cupernicus,rein	IAR ORB HI, &10MM B& IS. EMIS.ANG.# 71. INOLO	NONE  CAM-RAD-=  LIMB OH HORIZ	54K 88575 36D 1793+2 km+ sun On	д6•9 Я <b>•</b> • AZH <sub>=</sub> 92•5
ι 3	2 123 /*** 27**57# 76 *** CAM**HAD** 3***BN 27**58# WESTERN PART 0	• coe Glisiu 2-20-67 LUN 5wing= 169. Phase= 8 F Lac 58 copernicus,rein	15. FH15.ANG.= 72.	CAMADANA	1791-2 VM. CHU	A6+9 B →±00 AZH# 92+5
+ 3	Z 124 0-625 20-09W 77 ** CAN-NAD** -625 20-09W HORTHERN PART UF LAC 76 R	* **** 044432 2*20+67 LUN Swing= 47. Phase* 7 Iphaeus Ht,frau Mauro	12. FHIS.ANC O.	CAM-DID -	1 - 0 C 2 WH CHM	+3 17** AZM= 91.3
ι 3	2 125 0+675 19+976 77 ** CAH+NAD+* +675 19+97K NOKIHERN PART UF LAC 76 R	• •••• 044434 2-20-67 LUN Sming= 20• Phase= 7 Iphaeus Mi•Frau Mauro	IAR ORB LD:F=BONH B&/ /2. EMIS.ANG.= D. & SOUTHERN	NONE  CAM•RAD•#  PART OF LAC 5A C	46K 575000 220 1785•2 KM• SUN OPERNICUS•REINHOLD	•2 1787 AZM= 91+3

William mentite mention

- L 4 2 1U2 12-96N 3-63E 19 \*\*\* \*\*\* 054527 5-18-67 LUNAR URB LO-F=80MM 86W NONE 2699K J37375DD 237 1-1 27 --15

  CAM-NAD-\* 13-89N 5-14E S61NG= 53. PHASE= 66. EHIS-ANG.\* 3. CAM-RAD-\* 4438-2 KM. 5UN AZM= 94,7

  LAC 59 M-VAPURUM,HYGINUS : @1/4 MUDNS SPHERE : LAC 58 COPERNICUS,RFTNHOLD & LAC 112 TYCHO-STOFL
- L 4 2 184 70-35N 18-10E 19 300 4000 0657UB 5-18-67 LUNAR ORB LU-F-BONH B&W NONE 3428K 42850ND0 153 48 12 -,00 LAM-NAD-- /1-87N 15-88E SWING= 330 PHASE= 80 EMIS-ANG= 30 CAM-RAD-- 5167-2 KM- SUN AZM-125-4 LAC 4 HETON-UESITTER I WI/4 HOONS SPHERE I LAC 58 COPERNICUS, REINHO : LAC 1 NoPOLE NEARSTOF B & LAC 16
- L 4 I 114 I3-46N LU-97# 21 \*\*\* \*\*\* 054938 5=19-67 LUNAR ORB HI- 610MM B5W ... NONE 2 87K 4404918 261 1=8 19 ... 4

  CAM-HAD-= 13-89N 8-09W SWING= 77. PHASE= 66. EHIS-ANG.= 5. CAM-RAD-= 4426-2 KM. SUN AZM= 94.2

  LAC 58 CUPERNICUS-KEINHOLD : LAC 59 M-VAPORUM-HYGINUS I LAC 41 APENNINES-HAFHUS & LAC 40 TIMOCHARIS-L
- L 4 2 119 42.785 7.448 22 0.0 0.00 164855 5-19-67 LUNAH ORB LO.FBRONN B&W NONE 2991K 3738750U 97 4.8 ZB -.00

  CAM.NAD.= 42.265 18.748 SWINGE 295.0 PHASEE BZ. EHIS.ANG.= 13.4 CAM.RAD.= 4730.2 KH. SUN AZH. 69.1

  LAC 112 TYCHU.STOFLEH I @>1/2 HUON SPHERE I LAC 144 SCUTT,5.POLE NEARSIDE >6 LAC 58 COPERNICUS.R
- L 4 1 120 14-295 15-64W 22 0-0 0-00 172107 5-19-67 LUNAR ORB HI. 610HM 86W ... NOHE 2718K 4455738 77 -05 20 --49

  Cam-had-# 14-465 16-43W SWING# 2630 PHASE# 710 EM15-ANG-# IO CAM-RAD-# 4457+2 KM0 SUN AZM# 84-0

  EASTERN PART OF LAC 76 RIPHAEUS M ; EASTERN PART OF LAC 94 PITATUS,M0 ; LAC 95 PURACH-ARZACHEL & LAC 58 COPERNICUS,RE
- C 4 1 121 13+81N 16+81W 22 \*\*\* \*\*\* \*\*\* 175143 5-19-67 LUNAR ORB HI \*\* 610HM 86# NONE 2682K 4396721 268 1+3 70 -\*\*19 CAM+NAD+= 33+87N 14+69# SWING= 83\* PHASE= 67\* EMIS\*ANG\*= 3\* CAM\*RAD\*= 4421\*2 KH\* SWIN AZH\* 94\*4 EASIENN PART OF LAC 58 CUPERNICUS\*REINHOLD : EASTERN PART OF LAC 40 TIMOCHARIS & NORTHERN PART OF LAC 76 RIPHAEUS HT.
- L 4 2 121 13-01N 16-80W 22 000 0000 175143 5-19-67 LUNAR ORB LD-F=80MM 86W ... NDNE 2682K 33525000 268 103 20 -066 CAM-NAD-= 13-87N 14-69W ... SWING= 83. PHASE= 67. EMIS-ANG-H 3. CAM-RAD-= 4421-2 KM. SUN A7M= 94-4 EAC 58 CUPERNICUS, REINHULD ... 1 W>1/2 MOUN SPHERE 1 LAC 111 WILHELM, E. I. LAC 96 ALTAI 5CA 1 LAC 11 Joher & LAC 27 GEMIN
- L 4 1 125 14+895 22+97# 23 0+0 0+0 052313 5-20-67 LUNAR URB H1+ 610MM 86% NONE 2717K 4454098 17D +3 19 -+44

  CAM=NAD+= 14+4US 23+066 SWING# 356+ PHASE# 71+ EMIS+ANG+# 1+ CAM+RAD+# 4456+2 KM+ SUN AZM# 84+2

  WESILHW PART OF LAC 76 KIPHAEUS HT+FRAU MAURU | CENTRAL PART OF LAC 94 PITATUS+M+6 5+ W+ PART OF LAC 58 COPERNICUS+R
- L 9 | 126 | 1200 | 1300 | 1300 | 1300 | 1000 | 1300 | 1200 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300
- L 4 Z 126 12-87N 23-05W 23 \*\*\* \*\*\* 055348 5=20=67 LUNAR ORB LO-F#80MM R6W = NONE 2A77K 33462500 238 1-3 20 --\*\*

  LAM-HAD-# 13-94N 21-27W SWING= 53- PHASE= A8- EMIS-ANG-# 3- CAM-PAD-# 4416-2 KM- SUN AYM- 94-0

  LAC 58 CUPENNICUS-REIMHOLD I B>1/2 HUON SPHEME I LAC 111 MILHELM-ELGER-MEE A CAC 10 BABBAGE.N.PR

£ 4 4 183 43.534 71.02W 32 \*\*\* \*\*\*\* 1836U7 5~24~67 £UNAR ORB £0.F\*80MM B&#

LAC 24 SE+GERARD.BUNSEN.HARDING : p>1/2 MOON SPHERE

ιf

" NONE 2874K 35925000 79 2+8 20 -.90

A LAC I N.POLE NEARSI

- MIS HAG FROPHULU PRINOPTO URB GET GHT M-DA-TR CAMERA-LENS OR FILM-EXPOSURE ALT: SCALE AT TILT SUN SIDE. SION ROLL OR LAT. M TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FND. H H MAIN LUNG. (I=ESTIMATED) TYPE Hanahi PT. FR. LAP x=KH+ VERT 8. 8 L 4 2 128 69+92N 9+43# 23 \*\*\* \*\*\* 070417 5\*20-67 LUNAR ORB LU+F=80HH B6W " NONE 3369K 42117500 171 1+0 12 --\*\*

  CAM-NAD+\* 71-9UN 10+32% SWING\* 347\* PHASE\* 80\* EMIS-ANG\*\* 3\* CAM-RAD\*\* 5108+2 KH\* SUN A7M\*122+3 LAC 3 PHILULAUS.HARRUW : W>1/2 MOUN SPHERE : LAC 58 CUPERNICUS.REINHOLD & LAC 17 L 4 I 132 9-145 29-59# 24 \*\*\* \*\*\* 1725U7 5-20-67 LUNAR ORB H1. 610HH B6# - NONE 27:7K 445409B 1 3-4 19 -.50 CAM-NAD-# 14.425 29.69# SWING# 188. PHASE# 72. EHIS-ANG.# 9. CAM-RAD-# 4456-2 KM. SUN AZH# 86-2 LAC 76 RIPHAEUS HT. FRAU HAURO I LAC 75 LETRONNE FLANSTO I LAC 93 H. HUMOR . GASSENDI & LAC 94 PITATUS. H. NU 1 4 1 133 18-73N 29-69H 24 \*\*\* \*\*\*\* 175540 5-25-57 CUNAR ORB HI: 610MH B6N T NONE 2673K 4381967 340 3:3 17 -146 CAH-HAD-# 13-91N 27-86W SHING# 156+ PHASE# 68+ EMIS-ANG-# 8+ CAM-RAD-# 4412-2 KM+ SUN AZM# 55-9 WESTERN PART OF LAC 40 TIMOCHARIS. LAMBERT 1 LAC 39 ARISTARCHU & LAC SR COPERNICUS, REINHOLD L 4 2 142 42.045 33.378 26 000 0000 165605 5-21-67 LUNAR ORB LO.F=80MM 868 - NONE 3007# 37587500 93 5+2 20 -.\*\* CAH.NAD. # 42.145 45.58% SHING# 2914 PHASE# 84. EHIS.ANG.# 14. CAH.RAD.# 4746.2 KH. SUN AZH# 70.4 LAC III WILHELM ELGER MEE I G>1/2 MUON SPHERE I LAC 144 SCOTT, S. POLE NEARSIDE >6 LAC 56 HEVELIUS, REI L 4 2 148 42.945 41.388 27 \*\*\* \*\*\*\* 045722 5-22-67 LUNAR ORB LO.F.BOMM BEN \* NONE 3009K 37412500 99 4.6 18 -... LAB-HAD-= 42-115 52-338 SminG= 297. PHASE 84. EMIS-ANG.= 13. CAM-RAD-= 4748-2 KM. SUN AZM- 71-6 LAC IIU SCHICKARU.LACHOIX # #P>1/2 HUON SPHERE | LAC 144 SCOTT.S.POLF NEARSIDE >6 LAC 56 HEVELIUS.REI L 4 2 156 12-70N 49-298 27 \*\*\* \*\*\* 060012 5\*22-67 LUNAR ORB LO.F. #80MM 864 - NONE 2668K 33350000 234 1-3 18 +-11 CAM-NAD-= 13-71N 47-59W SWINGE 48. PHASEE 7D. EMIS-ANG-E 3. CAM-RAD-= 4407-2 KM- SUR A7ME 93-5 LAC 57 NEPLER . ENC : W>1/2 HOUN SPHERE : LAC 92 BYRGIUS .DA : LAC 11 J. HERSCHEL .JURAS .BOUGHER & LAC 58 COPERNICUS .RE L 4 2 151 40.88N 40.20W 27 ... ... 063228 5-22-67 LUNAR ORB LO.F. AOMH BEW NONE 2866K 35825000 118 2.4 21 -... CAM-NAD-# 42-840 44-74W SWING# 202. PHASE# 75. EMIS.ANG.# 6. CAM-RAD.# 4605.2 KM. SUN AZM#178.3 LAC 23 MUHKER SHA : WS 1/2 MOON SPHERE : LAC 74 GRIMALDION : LAC I NOPOLE NEARSIDE BYRD PEARY SOON & LAC IS ARISTOTE ... HOF L 4 2 161 15-135 61-988 29 \*\*\* \*\*\* 053134 5-23-67 LUNAR ORB LO.F. SOMM 864 - NONE 2723K 34037500 129 +8 17 -.88 CAM-HAD-# 14-365 62-94W SHING# 315- PHASEW 75- EMIS-ANG-# 2- CAM-RAD-# 4462-2 KM- SUN AZM# 84-7 LAC 14 GHIMALDI.8 : W>1/2 MOON SPHERE : LAC 136 BAILLEY.K : LAC 22 SE.GERARD.BUNSEN.HARDING & LAC 58 COPERNICUS.RE - None 2872k 35900000 116 2+0 19 --90 CAH-HAD-= 42.86H 70-79H Swings 279. PHASEs 76. EHIS-ANG-S 5. CAN+RAD+# 4611+2 KH+ 5UN A7H#106+8 LAC 22 St. GEHARD, BUNSEN, HARDING ; \$21/2 MOON SPHERE | LAC 73 RICCIOLI, NE. ORIENTAL & LAC 1 N. POLE NEARS!
- L 5 I 133 II+56N 10+76W 57 \*\*\* \*\*\* 105416 8=15=67 LUHAR DRE HI. 610MH B6W NONE 103K 168852 27I 11+2 IR -.\*\* Lam+Had+= 11+47N 10+07W 5WING= 177\* PHASE= 60\* EMIS+ANG== 12\* CAM+RAD\*= 1842\*2 KH\* SUN AZM= 92+2 N\* E\* PART OF LAC 58 COPERNICUS,REINHOLD

CAH-HAD-# 42-84H 77-39H SHING# 242- PHASE# 77. EMIS-ANG.# 8. CAH-RAD-# 4613-2 KM. SHN AZM#19R.9

| LAC 90 LOWELL

L 5 2 133 11.500 10.77% 57 \*\*\* \*\*\* 105416 8\*15\*67 LUHAR ORB LU.F#BBHM 86% - NONE 103" 1287500 272 11.3 18 -.\*\*

CAM-HAD-\* 11.48H 10.67% SWING# 178. PHASF# 60. EMIS-ANG.# 12. CAM-RAD-# 1342.2 KM. SUN AZM# 92.2

N. E. PAHI OF LAC 58 COPERNICUS, KEINHOLD 6 N. W. PART OF LAC 59 H.VAPORUM, HYGINUS

N. E. PART OF LAC 58 COPERNICUS. REINHOLD

M15 Si(	S MAG FR.PHUTU P JN HULL UK LAT # MAIN #	RIN.PT. UNB GE! • # TIME5 LUNG. (I=E5	GMT M-DA-YR -HR H SEC TIMATED}	CAMERA-LENS ON Sensor Type		TUDE PRIN.	T I E T SUN SIDE. gZ ANG. A <sup>N</sup> G. FMD. FR. LAP VERT 9. 9
<u>د ن</u>	5 1 13 <sup>4</sup> 12+66N CAM+HAD== 12+57N	4.984 SWIF	** 105435 8-15-67 G= 103. PHASE LAC 58 COPERNICUS.	LUNAR ORB HI. 610MM E 63: EMIS-ANG.# L REINHOLD	96# → NONE 2. CAM+RAD-≡	105K 17213I . 1844+2 KM+	277 11,2 in +,++ SUN AZM# 92+6
į, i	CAMENADE 12-58N	9.48M 24II	G= 183+ PHASE	LUNAR ORB LO.F=80MM 60. EMIS.ANG.= 1	2. CAM.RAD.=	189 12 KH+	SUN AZHI 92+A
լ ։	i 135 i3.888n Cam.nad.== 13.72n N. E. Pak	1 U+ 58W 57 +++ 5WIS	•• 105455 B=15=67 G= 189• PHASE NICUS.REINHOLD	LUNAR ORB HI. 410MH * 60. EMIS-ANG.* I.	BL# - NONE 2. CAH+RAD+= 4. PART OF LAC 59	106K 17377U . 1845+2 kH+ M+VAPORUH+HYS1NU	283   11+3   18  ** SUN AZH= 93+0 S
ι:	48-135 13-89N CAM-NAD-= 13-73N	10+59W 57 ++* ++ 9+87W Swin	** 185456 8-15-67 Gm 189. PHASE	LUNAR ORB £0.F=80MM = 60. EMIS.ANG.= 1. & No.	BLW - NONE 2. CAM.RAD.=	196K 1325nnn .	283   11 4   18 - 49 5un azma 93.0
ι :	CAM-HAD-= 14.91N	Y•78₩ S+16	G= 195. PHASE	LUNAR ORB HI. 610MM = 60. EMIS-ANG.* I 6 N.	Z. CAM-RAD.	1847 • 2 KM •	SUN AZM= 93+5
	CAM.HAD.= 14.924	9.78W Salk	G= 195. PHASE	LUNAR ORB LO.F#80MM * 60. EMIS.ANG.= 17 . PART UF LAC 59 M.	Z. CAMERAD.	1947.2 KH.	SHN Asse Pr.c
	1 137 6+6JN	14.75" 59 *** ** 13.9) Swin	** 171450 B-15-67	LUNAR ORB H1. 610MM = 59. EMI5.ANG.= 1	R&W - NonF	100x 163914 :	277 13.4 17**
ני	2 137 6.61N Camenade= 6.50R	13.974 5416	** 171450 8-15-67 G= 183. PHASE LAC 58 COPERNICUS.	LUNAR ORB LO.F.BOMM = 59. EMIS-ANG.= 14 REIMHOLD	R&W - NONE 4. CAM+RAD+#	100K 1250000 2 1939+2 KM+	277 13.5 17 SUN AZH# 90.5
ί.	1 142 12+67H Cam-Hau-= 12+76N	16.944 5417	** 233840 B=15=67 G= 4. PHASE Lac 58 COPERNICUS.	LUNAR ORB HI. 610MH * 80. EHIS-ANG. * 'REINHOLD	BLW - NONE 9. CAM-PAD-1	1845 + Z KM+	99 8+5 19 Sun Azn= 92+8
ί έ	2 142 12+68H CAN+NAD+= 12+76N	16-94% Sala	•• 233840 8-15-67 G= 4• PHASE LAC 58 COPERNICUS.	LUNAR ORB LO.F=BOMM = BO. EMIS-ANG.= 'REINHOLD	B&W = NONE 9. CAM+RAD+#	106x 1325nn0 1645•2 kH• 5	99 8.3 19 BUN 82M= 92.8
ري	. 143   13+65N Cam-nam- 13-87k	16.85% 5418	•• 2339JU 8-15-67 G= 357. PHASE LAC 58 COPERNICUS,	LUHAR ORB HI. 610MM = 80. EMIS.ANG.B '	RGW - NONE 9. CAM-RAD-=	107K 175410 1846+2 kM+ 5	91 8+5 19 -+** SUN A/H# 93+2
ι 5	CAM-HAD.= 13-88N	16-84# 2#IN	** 233900 8-15-67	LUNAR ONB LO.F#86MM = HO. EHIS.ANG.= "	BAU - NONE F. CAM-RAD.=	107K 13375n0 1846+2 kH+ 5	91 8.3 19 -,51 SUN AZM# 93.2

## REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 138

MIS NAG FR.PHOTO PRIN.PT. ORB GET GRO M-DA-YR CAMERA-LENS OR FILM-EXPOSURE Sion Roull or Lat. B times-hr m sec sensor and filter B main lung. (fæestimated) type B	ALTI SCALE AT 3 I L T SUN SIDE, TUDE PRIN. AZ ANG. ANG. FNO. HEN.HI PT. FR. LAP KÆKH. VERT %. 8
L 5 1 144 15.06N 16.19W 61 *** *** 233920 8-15-67 LUNAR ORB HI: 610MM B6# - NON Cam.Had.= 15.01N 16.75W Swing= 349. Phase= 80. Emi5.ang.= 9. Cam.Rad.= N. E. Pari of Lac 58 cupernicus.reinhold	E 109K 178689 A4 8+6 19 =+** 1848+2 KM+ SUN AZM= 93+6
L 5 2 144 15.07N 16.19# 61 ••• •»•• 233920 U-15-67 LUNAR ORB LO.F=BOMM B&W " NON LAM.NAD.= 15.01N 16.75W SWING= 349. PHASE= 80. EMIS.ANG.= 9. CAM.RAD.= HORTHERN PART OF LAC 58 COPERNICUS, REINHOLD & SOUTHERN PART OF LAC 40	E 109K 1362500 83 8+5 19 -+50 1848+2 KH+ SUN AZH= 93+6 TIMOCHARIS,LAMBERT
L 5 2 145 16-31N 16-08N 61 *** *** Z3394D 8-15-67 LUNAR ORB LO.F=80HH BGW - NON CAM-MAD** 16-18N 16-65W SWING* 341* PHASE** 8D. EMIS*ANG** 9* CAM*RAD** SUUTHEMN PART OF LAC 4D TIMOCHARIS*LAMBER* G NORTHERN PART OF LAC SR	1850+2 KM+ SUN AZH= 94+1
L 5 1 146 6.43N 18.27W 62 *** **** Q2475G 8-16-67 LUNAR ORB HI, 610MM 86W - NON Cam.nad.** 6.50N 19.20W Swing= 360. Phase= 88. Emis.ang== 16. Cam.rad.* 5. E. Part of Lac 58 copernicus, reinhold	E 101K 165574 94 15+5 19 -+++ 1840+2 KM+ SUN AZM= 90+6
L 5 2 146 6.44N 18.28W 62 ••• ••• 024750 8-16-67 LUNAR ORB LO.F=80MM B&W = NON Cam.Mad.= 6.5in 19.20W	E LOIK 1762500 94 15+4 19 -+** 1840+2 km+ SUN AZM= 90+6
	E  UIK 165574 93 15+5 19 ++ 5 1840+2 kH+ SUN AZH≃ 90+7
L 5 2 147 6.74N 18.25# 62 *** *** 024755 8=16-67 LUNAR ORB LO.F=80MM 86W = NON LAM.NAD.= 6.79N 19.17W SWING=359. PHASE= 88. EMIS.ANG.= 16. CAM.RAD.= 5. E. PART OF LAC 58 COPERNICUS.REINHOLD	E 101K 1262500 93 15.4 19 *.87 1840.2 KM. SUN AZM= 90.7
L S 1 148 /outh 18.224 62 *** *** 024800 8-16-67 LUNAR ORB H1. 610MM 86W * NON CAM-HAD-= 7.05N 19.15W SWING= 358. PHASE= 88. EMIS-ANG-= 16. CAM-RAD-= S. E. PART OF LAC 58 COPERNICUS,REINHOLD	E 101K 165574 92 15+5 19 9 1840+2 KM+ SUN AZM= 90+8
L 5 2 148 7.02N 18.23M 62 PHASE B8. EMIS.ANG. 16. CAM-RAD. CAM-NAD. RETURNED CENTRAL PART OF LAC 58 COPERNICUS.RETURNED	E 101K 1262500 92 15+4 19 ++88 1840+2 km+ SUN AZM= 90+8
L 5 1 149 7.28N 18.20N 62 *** ** 024804 8-16-67 LUNAR ORB HI. 610MM B6N - NON Cananad.* 7.Jin 19.13% Swing= 357. Phase= 88. Emis.ang.= 16. Cam.rad.= Central part of lac 58 copennicus.reinhold	E 101K 165574 91 15+5 19 =+13 1840+2 KM+ SUN AZM# 90;4
	E 101K 1262500 91 15+4 1988 1840+2 KH+ SUN AZM= 90+9
L 5 I 150 9.2JN 20.4IW 63 *** **** 055937 8-16-67 LUNAR URB HI, 6IOMM R&G - NON CAM.NAD.= 9.25N 2J.72W SWING= 4+ PHASE= 77. EMIS.ANG.= 5+ CAM.RAD.= CENTRAL PART OF LAC 58 COPERNICUS.REINHOLD	IE 103K 168852 99 5+2 18 -++++ 1842+2 kH+ SUN AZM+ 91+5

5	#	HOLL OR LATE H MAIN N	FONG.	IIMES-HR M SEC (+=ESTIMATED)	:	_	βĄ	D FILTER	THDE PRI M=N+HI P K=KM+	N. A7	ANG. ANG. FR. VERT	₽₩D•   LAP   %   \$
L	. 5		40"/2"	99 949 055933 Shing# 4. OF Lac 58 co	T MA 3 P	L <sup>u</sup> nar oru lo.f=80mm = 77. enis.ang.= Reinhold	86# 5. (A	= NONE H∗rad•=	103K 1287	500 95 SUI	7 5+1 18 N A2M= 91+5	-,••
L	. 5	CAMENADO = 9.52N	2U•70H	*** *** 055942 5WING** 1* OF LAC 58 CO	PHASE	LUNAR ORB HI. 610HH - 77. EMIS.ANG.= REINHOLD			1842+2 KM+			
i.	. 5	CAM HAD = 9.53N	28.70%	*** *** 055742 SWING* 1* OF LAC 58 CO	PHASE	LUNAR ORB LO.F=80MM - 77. Enis.ang.# Reinhold			103K 1287 1842+2 KM+			
L	5	CAN-NAD-= 9.86H	50 • VB A	••• ••• 055947 SwileG= 358. OF LAC 58 CO	PHASE	LUNAR ORB HI. 610MM * 77. EMIS-ANG.= REINHOLD			103K 168 1842+2 KH+		5 5,2 18 1 A7M= 91+7	
L	5	CAU-HAD+= A+81H	24+67%	*** *** 055947 Swing= 358. Of LAC 58 CO	PHASE	LUNAR ORB LO.F=80NM 77. EMIS.ANG.= REINHOLD		- NONE	103K   2879 1842+2 KM+	500 92 SUN	5 + 0 18 1 A7M= 91+7	-,87
Ĺ	5	LAM+NAD+* LU-U7N	2u+65W	••• •••• 055952 Shing# 355• OF LAC 58 CO	PHASE	LUNAR ORB HI. 610MM 77. EMIS-ANG.= REINHOLO			104K 170° 1943•2 KM•			~. 6
L	5	CAU*4AD*# 10.08M	20+65#	*** **** 055952 5wing= 355* of lac 58 co	PHASE	LUNAR ORB LO.F*BOMM 77. ENIS.ANG.# REINHOLD		* NONE	104K 13000 1843+2 KH+	ono 89 SUN	5+1 18 AZM= 91+8	-,87
ŕ	5	CAMeHADe= 10.35N	20.634	*** **** 055956 Swing# 352* UF Lac 58 c0	2HASE .	LUNAR ORB HI. 610HM 77. EMIS-ANG.# REINHOLD		NONE	1848   1704 1843+2 KM+	92 87 SIJN	5.2 18 AZMm 91.9	-, 6
L	5	CAH+NAD+= 10+35N	2U•63n	*** **** 055957 Swing= 352* Of Lac 58 co	PHASE =	LUNAR ORB LO.F.=BDHM 77. EMIS+ANG+= ! EINHOLD			104K 130no 1843•2 KM•			
Ł	5	CAM . HAD . = 10 . 62N	20.61W	*** *** 060001 Swing= 349. T Of LAC 58 CO	PHASE =	LÜNAR ORB H1. 610MM 77. EMIS-ANG.= EINHOLU			104K 1704 1843•2 KM•		5+3 18 AZM= 92+0	_
٤	5	CAM - NAD - = 10 - 62N	20+614	*** **** 060001 Swing* 349* T OF LAC 58 CO	PHASE =	LUNAR ORB LO.F=80HM 77. ENIS.ANG.= ! EINHOLD			1848 13878 1843+2 KM+			
i.	5	CAU-NVD-= 10-98H	20•59ห	••• ••• 960496 5aing: 346. 1 Of Lac 58 co	PHASE =	L <sup>u</sup> nar orb Hi. 610HH 77. Emis.ang.= 4 Einhold		None F+RAD+#	104K 1704 1843+2 KM+	92 A1 SUN	5+3 1R AZM# 92+1	-, 7

#	•	# TIMESTIMATED)		SENSOR Type	AND FILIFR	Kakw.	ANG. ANG. FWD. FR. LAP
		PART OF LAC 58 COP	ERNICUS,REINHO!	- U	CAMERAULE	1843+2 Km+ 50/	N A <sub>L</sub> Mm 92+1
		PART OF LAC 58 COP	ERNICUS, REINHOL	ט.	CAM+RAD a m	1844+2 KM+ SU	N AZH= 92+2
<b>L</b> 5	2 157 11.24W 20.24W CAM.NAD.= 11.17N 20.56W NORTHERN	63 *** *** 060011 Swing= 343. PART OF LAC 58 COP	8-16-67 LUNAR PHASE= 77. ERNICUS.REINHOL	ORB LO.F.AOHM 86W EMIS.ANG 6.	- NONE	105K 1312500 77 1844+2 KM+ SU	7 5+3 18 ~,87 V AZH= 92+2
		C S7 KEPLER, ENCKE		6 N. H. PAR	TOF LAC SH (	1848•2 KH• SUN OPERNICUS.Reinhold	I AZM= 92.4
		C 57 KEPLER.ENCKE	8-17-67 LUNAR Phase= 73=	ORB LO.F. BOMM BGW EMIS.ANG. = 1.	- NAME	110K 137500D 341 1849+2 KH+ SUN OPERNICUS.REINHOLD	1.0 1787
		SWING# 252. C 57 KEPLER.ENCKE	PHASE 73.	URB EO,F#8DMM BGW EMIS•ANG•= 1• 6 N• N• PAR	" NONE CAH+RAD+= T OF LAC SR C	110K 1375000 347 1849+2 KM+ SUN OPERNICUS.REINHOID	1 • 2 17 -,87
L 5	Z 167 13.47N 30.89W Can.Nad.= 13.37N 30.88W N. E. Part of Lag	69 *** **** 010640 SWING= 256* L 57 KEPLER,ENCKE		000 to # hear	" NONE	110K   1375000 350	1+5 17 +,8A

TOTAL PHOTOS IN THIS GROUP = 160

LAM-HAD-= -12N 1-79%

SHING= 94.

SOUTHERN PART OF LAC 59 M. VAPORUM HYGINUS

\* NONE 51K 637500 286 1.8 20

SUN AZH# 88.4

CAM+RAD+= 1790+2 KH+

6 NURTHERN PART OF LAC 77 PTOLMAEUS, KLEIN

TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS (+):(+):() OH(J) = NO INFO W = APPROXIMATELY NEXT TO MAGH, BEBRACKET MOUNTED: G= CAH. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. = SUPER WIDE ANGLE LENS! FKTR-EXTAR 2.8 LENS! HSB= HASSELBLAD; HAUREN; ZP,ZB,ZS = ZEISS LENS(PLANAR,BIOGEN, SONAR); FOCAL LENGTHIMM) & MAX.F-OPENING 14 AS EXPOS SPEED # 1/1000 TOR \*\* TWO ZEROS) FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOHETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF LXXX ON ORIGINES. AT PP IF ALT NOT 0.0

MIS MAG FR.PHUIU PRIN.PT. ORB GET GHT M-DA-YR CAMERA-LENS OR FILK-EXPOSURE SION HOLL OR LAT. ALTI SCALE AT TILT SUN SIDE. TIMES-HR H SEC . SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. MAIN LONG. ( =ESTIMATED) TYPE M=N.HI PI. н FR. LAP K=KH. VERT 8.8 £ 1 4 103 2.07N 8-14E 62 \*\*\* \*\*\* 223957 8-23-66 LUNAR ORB LO.F=80MM 86# CAM-NAD-= 2-43N NONE 67K 837500 222 12.5 11 8.47E 5w1NG= 41. PHASE TO. EMIS.ANG. 13. CA: +740+= 1886+2 KH+ S. E. PART OF LAC 59 M. VAPORUM . HYGINUS SUN A-H= 88.9 L i 2 113 2.85N 5-28W 67 \*\*\* \*\*\*\* 160403 8-24-66 LUNAR ORB LO.F. BOMM BOW NONE 75K 937500 239 19.9 6 CAM-NAD. = 3-18N 4-72N 5wing 58. PHASE# 70. EHIS.ANG.# 15. CAR.RAD. = 1814.2 KM. SUN AZHE BB.B 5. H. PART OF LAC S9 M. VAPURUM. HYGINUS L 1 2 114 2.77N 4-87# 67 \*\*\* \*\*\* 160410 8-24-66 LUNAR ORB LO.F.BOMM 86# NONE 74K 925000 238 14.6 7 -.77 CAM-MAD-= 3-18N 4-33W SWINGE 57. PHASE TO EMISTANG . 15. CAH+RAD+# 1813+2 KM+ SUN AZH# BR.A 5. W. PART OF LAC S9 M. VAPORUM. HYGINUS L 1 2 118 6.28N 2.55% 73 \*\*\* \*\*\* 130205 8-25-66 LUNAR ORB LU.F.BOHM REW NONE 52K 650000 284 2.5 20 LAM-NAD-= -26N 2-47W Swing. 93. PHASE 68. EMIS.ANG. 3. SOUTHERN PART OF LAC 59 M. VAPORUM. HYGINUS CAM+RAD+m 1791+2 KH+ SUN AZH. 88.5 & NORTHERN PART OF LAC 77 PTOLMAEUS.KLETN £ 1 2 119 0.25N 2.41W 73 .00 .000 1382U7 8-25-66 LUNAR ORB LO.F=80HM B&W - NONE 52K 65000U 285 2.4 20 CAH-HAD-# -23N 2-34W Saing= 93. PHASE# 68. EMIS.ANG.# 3. CAM+RAD+= 1791+2 KH+ SOUTHERN PART OF EAC ST H.VAPURUM.HYGINUS SUN AZM# 88.5 & NORTHERN PART OF LAC 77 PTOLMAEUS, KLEIN L 1 2 120 U+22N 2-27W 73 \*\*\* \*\*\* 130210 8-25-66 LUNAR ORB LO.F=80MM B6W NONE 52K 650000 285 2.3 20 CAN. HAD. = . ZIN 2.20W SWING= 93. PHASE 68. EMIS.ANG. 2. CAM.RAD. . 1791.2 KM. SOUTHERN PART OF LAC 59 M. VAPORUM . HYGINUS SUN AZM= BR.S & NORTHERN PART OF LAC 77 PTOLMAEUS. KLEIN L 1 2 121 U-19N 2-13W 73 --- --- 13U212 8-25-66 LUNAR ORB LO.F=80MH RLW NONE 52K 650000 285 2.1 20 CAM-HAD. . 18N 2.GAW SWING= 94. PHASE - 68. EMIS.ANG. - 2. CAM+RAD+= 1791+2 KH+ SOUTHERN PART OF LAC SY H.VAPORUH.HYGINUS SUN AZHE 88.5 6 NORTHERN PART OF LAC 77 PTOLMAEUS, KLEIN L 1 2 122 U-16N 1-98W 73 \*\*\* \*\*\*\* 130214 8-25-66 LUNAR DRB LO.F. #80MM 86W NONE 51K 637500 285 2.0 20 CAM-NAD .= +15N 1.93N -.87 SWING= 94. PHASER 68. EHIS.ANG. 2. CAH+RAD+# 1790+2 KH+ SOUTHERN PART OF EAC 59 H.VAPORUN.HYGINUS SUN AZMa 88.4 6 NURTHERN PART OF LAC 77 PTOLMAEUS.KLEIN ( 1 2 123 0-13N 1-84W 73 \*\*\* \*\*\* 130216 8-25+66 LUNAR ORB LO.F=80MM R66

PHASE 68. ENIS.ANG. 2.

S. E. PART OF LAC SO M. VAPORUM HYGINUS

																			7, 01,	•
# I S I	15 10N	HAG KULL H	FR PH UH HAIN	IUTU PR Late	.ТЧ.И13 ДИОЈ	# #	GET TIME5-HA (I=ESTIM	GHT R M SEC HATEU)	N-DA-YR	CAH	ERA-LENS OR Sensor Type	FILM-E	XPOSURE AND FI	LTFR	TUDE	CALE AT PRIN. I PT.	ΔZ	ANG.	ANG.	FWD.
Ļ	1	Z Cam.	124 Nad.= South	G = 1!)N = D9N IERI: PAH	1.71W 1.66 1 UF L	73 W AL 59	SHINGE M.VAPOHL	130219 94. 14. HYGI1	8-25-66 PHASE: IUS	LUNAR 68.	ORB LU»F#80HM EM15.ANG.= & NORTH	B&W Za ERN PAR	CAH.RA T DE LA	NANE D.= C 77	51K 1790+2 PTOLHAE	637500 KM. US.KLEIN	286 SUN	1 • 7 A7 M#	21 88•4	87
i,	i	Z CAM.	125 HAD+#	U•∪7N •U6N	1.57W	73 *	5 <sub>N</sub> 1NG=	130221	8-25-66 PHASE	LUNAR	ORB LO.F#80MM EMIS+ANG.= & NORTH	B&₩	CABook	NONE	51K	637500 KH-	286 N	1 • 6 A7 M#	21 58+4	87
L	1	Z Can di	126 Nad .=	4F tt 4	1,43%	73	*** *** Swing	130223	8-25-66	LUNAR	URB LO.F.BOHM EMIS.ANG.W & NORTH	86w	-	NanE	51K	43750D	287	1.4 AZH#	21 88•4	-,87
٤	i	2 Camai	127 HAD•=	#11บ•น И⊍⊍•	1 • 294	73	Swings	130225	8-25-66 PHASES	LUNAR	ORB LO.F-BOMM ENIS.ANG.* 6 NORTH	B&W	- CAM-DA	NONE	5 į K	6375nn	287	1+3 AzM=	21 88+4	87
L	1	2 . Lah.i	140	• 443	1 + 1 21	W	SWING PTOLHAEU	Y7.	PHASE.	60.	URB LO.F BOMM EMIS.ANG.E  & SOUTH	1.	CAM . RA	D • =	1790 - 2	K H +	SUN	J + 1 A Z H =	21 88•4	87
		CART	NON IH	EHR PAR	0.980 T OF L	N AC 77	P10FWYER	97. 15.KLE1N	PHASE:	84	ORB LO.F#80HM EMIS.ANG.# SOUTH	1. ERN PART	CAM <sub>*</sub> RA   OF LA	D.∎ C. 59	1790.2 M.VAPOR	NW*HA€1N KW*	5UN US	AZHæ	88.4	
			10.11		. Or C	46 //	FIULHAEU	2 * K L E 1 II			ORB LO.F#80MM EMIS.ANG.# SOUTH	ENN PART	DF LA	C 59	M.VAPOR	<b>ПН"НАСІИ</b>	ŲS			
L	J	Ž (AM+i	161 160.= 1700.	♥•115 •115 ERN PAR	0.74W 0.720 1 UF L	73 1 1C 77	SWING= PTOLMAEU	30234  100+  S+KLEIN	8~15~66 PHASE	LUNAR 68.	ORB LO.F=80HM EMIS.ANG.= & SOUTHI	B&W L. ERN PARI	CAM•RA OF LA	NnNE D•≡ C 59	51K 1790+2 M.VAPOR	6375 10 KM+ UH.P(GIN	292 SUN US	•7 AZM=	22 88•3	87
L	1	2   Can+1	132 NAD+= NOK1H	U•145 •145 EKN PAR	0+60# 0+58( T OF L)	73 1 16 77	SWINGE PTOLMACU	130237 102. 5.KLE1N	8-25-66 PHASE=	LUNAR 68.	ORB LO.F=BOHM EMIS.ANG.= & SOUTH	BG#  - ERN PART	CAN•RA	NONE D•= C 59	51K 1790+2 H.VAPOR	637500 KH• VH.HYGIN	294 SUN US	+6 A Z M =	22 89.3	87
L	ŧ	2   Cam+1	AVD	+1/5	0.451	i	SWING# Plotaen	106.	PHASE=	68.	ORH LO*F=80MM EHIS*ANG** 6 SOUTH	J •	CAM-RA.	D • =	1790.2	KH.	SUN	45 AZH=	<i>22</i> 86.3	~,87
ŧ.	2	I Caitai	92 4A0•#	3+94N	7.500	-	- M	I o O •	1-21-66 +445E= Aporum.hy	77.	URB HI. 610MM EMIS.ANG.* 14	B&₩ 4•	- Camera	NONE D•■	44K 1783+2	72131 кн•	1 2 SUN	13+5 AZM=	[4 ₹1•4	-,••

L 2 2 92 4-28N 4-59E 69 \*\*\* \*\*\* 023046 11-21-66 LUNAR ORB LU-F=80MM B&W + NONE 44K 550000 12 13-6 14 +.\*\* CAM-HAD-= 3-94H 4-51E 5WING= 180- PHASE= 79- EMIS-ANG-= 14- CAM-RAD-= 1783-2 KM- SUN AZH= 91-4

1012	ROLL UR LAT.	IN.PT. ORB GET P TIMES-HE LONG. (I=ESTIM		ERA-LENS OR FILM-E SENSOR TYPE	XPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. MmN.MI PT. KmKH.	AZ AMG. ANG.	F#D. LAP
լ 2	LAM.HAD. 4.15N	0.314 SWING.	G92737 11-21-66 LUNAR 1• PHASE= 76• M•HYGINUS	EH15.4NG.# 72.	CAH+RAD+#	44K 72131 1783+2 km+ PTOLMAEUS+KLEIN	SUN AZM# 90.4	
ί2	CAM-NAD-= 4-15N	U.31W SAING#	092737 11-21-66 LUNAR 1+ PHASE= 76+ IM <sub>#</sub> HYGINUS	EMIS.ANG. 72.	CAM + RAD + =	1783.2 KM.	SUN AZME PO+4	••
L Z	CAM + HAD + = 2 - 42N	0.42E SHING=	232411 II-21-66 LUNAR 247. PHASE= 70. 59 H.VAPORUM.HYGINUS	EHIS ANG .= 1.	" NONE CAM∗RAD∗=	41K 67213 1780+2 KM+	79 +7 21 SUN A7M= 91+3	**
լ 2	CAH-HAD-= 2-42H	უ.43E SWING≖	232411 11-21-66 LUNAR 241. PHASE = 70. 59 M.VAPORUM.HYGINUS	EMIS.ANG 1.				
լ 2		2 + D8 h SWING =	025235 11-22-66 LUNAR 289. PHASE= 70. 59 M.VAPORUM.HYGINUS	EHIS.ANG D.				
լ 2		2.08m 5WING=	025235 11-22-66 LUNAR 266• PHASE= 70• 59 M•VAPURUM•HYGINUS	EHIS ANG . # U.		41K 5.25n0 1780+2 kH+		-,00
լ 2	I 97 2.49N Сам.ыдр.= 2.49N	1.98h SAING*	025236 11-22-66 LUNAR 2844 PHASE@ 70* 59 H.VAPORUM.HYGINUS	EHIS.ANG. = 0.		41K 67213 1780+2 KM+		
ι 2	2	1.97W 5WING=	025237   1 = 22 = 66 LUNAR 267. PHASE = 70. 59 h. vaporum. Hyginus	ENIS.ANG.= 0.				
		1.87w 5wing.	025238 11=22=66 LUNAR 281+ PHA5E= 70+ 59 M+VAPORUM+#YGINUS	EMIS-ANG I.		41K 67213 1780+2 KH+		
ί2	2 98 2.46N CAM.HAD.= 2.47N	1.86W SVING=	025238 11+22+66 LUHAR 267. PHASE# 70. 59 H.VAPORUH:HYGINUS	EMIS.ANG.= I.		41K 512500 1780+2 KM+		
ι 2	1 99 2.44N Lam Uam. 45N	1.76W SHING*	025240 II=22+66 LUNAR 279• PH <sup>A</sup> SE± 70• 59 H•VAPOHUH•HYGINUS	EMIS.ANG. = 1.	- none	41K 67213 1780+2 KH+	110 +6 20 SUN A7H= 91+3	A
ί 2	2 44 2.44N CAM-HAD+= 2.44N	1-75# SWING=	02524U   13-22-66 LUNAH 268. PHASE= 70. 59 n.Vaporum,hyginus	EHIS-ANG. 1.				

	KOFF OK	LįT•		TIMES-HH	H SEC		5	A-LENS OR Ensor Type	FILM-E	LPOSURE AND FILTER	TUDE	ALE AT PRIN. PT.	ΑZ	ANG. FR.	ANG.	FWD: LgP
٤2	1 100° 2 CAM-NAD-*	2•42h 2•42N	1 + 65W	S 14 1 14 6 =	277.	II+22-66 (U PHASE* VAPORUM.HYGI	70.	IRB HI. 618MM EHIS+ANG.= I		- NONE			109 SUN	•7 azm=	20 91.3	6
L 2	2 100 A	2.42N 2.42N	1.64#	541HG=	268.	11-22-66 ŁU Phase* Vaporum.hygi	70+	ORB LO.F#80MM EMIS+ANG+# 1		- NONE	41K 1780+2	517500 KM•	100 50N		20 91•3	-,87
ί 2	I IUI* .		1.54#	SWINGE	276.		70.	ORB HI. 610MH EM15.ANG.= 1		- NONE	41K 1780+2				20 91•3	-, 6
լ 2	Z TUT CAH-NAD.=	2.39H 2.46N	1.53#	SWING=	268.	11-22-66 LU PHASE= VAPORUM.HYG1	70.	JRB LO.F=80HH EMIS+ANG.= 1	8&# •</td><td>- NONE</td><td>41k 1780•2</td><td>517500 KH•</td><td>100 SUN</td><td>*9 AZH#</td><td>20 91•3</td><td>87</td></tr><tr><td>F 2</td><td>1 102+ CAM+NAD+#</td><td></td><td>1 • 43 m</td><td>Swing.</td><td>275.</td><td></td><td>70.</td><td>ORB HI. 610HM EMIS-ANG.# 1</td><td></td><td>- NONE</td><td></td><td>67213 KH+</td><td></td><td>• 9 # 2 M =</td><td>21 71+3</td><td>-, 5</td></tr><tr><td>լ 2</td><td>Z luZ CAM+HAD+≡</td><td></td><td>1.42W</td><td>SWING=</td><td>268.</td><td></td><td>70.</td><td>)Re LO.F=80MM Emis•Ang•=  </td><td></td><td>- NONE</td><td></td><td></td><td></td><td>1+0 AZM#</td><td></td><td>-,87</td></tr><tr><td>ι 2</td><td>i ius Cah-nad-=</td><td></td><td>1.32*</td><td>SWING</td><td>275.</td><td></td><td>70.</td><td>ORB H1. 610HH EMIS-ANG.=</td><td></td><td>- NONE</td><td>41K 1780•2</td><td></td><td></td><td></td><td></td><td> 5</td></tr><tr><td>ι 2</td><td>2 103 CAM+NAD+#</td><td></td><td>1 . 3 I W</td><td><b>±</b>∂41₩2</td><td>269.</td><td></td><td>70.</td><td>ORU LO.F=80MM Emi5+ang.=</td><td></td><td>- NONE</td><td>41k 1780•2</td><td>5125AU KM•</td><td>1 N N</td><td>1 + 1 AZH=</td><td>21 91+3</td><td>-,87</td></tr><tr><td>ι ?</td><td></td><td>2 . 16N</td><td>2.284</td><td>Տայնն≖</td><td>263.</td><td></td><td>69.</td><td>ORA HI. 610HH Emis.ang.=</td><td></td><td>⇔ None Camerades</td><td></td><td></td><td></td><td></td><td></td><td>-,••</td></tr><tr><td>ι 2</td><td>2 104 CAN-NAD-=</td><td>2 - 15N</td><td>2 • 27 6</td><td>5 W 1 N C =</td><td>254.</td><td>11-22-66 LI PHASE= VAPORUM:HYG</td><td>69.</td><td>ORB LO.F=80Mm Emis.ang.=</td><td>86W   •</td><td>- NONE</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>L 2</td><td>I IUS CAN-NAD-=</td><td>2 - 1311</td><td>2+179</td><td>5w  NG=</td><td>264.</td><td>11-22-66 L! РНД5E= VAPORUN•НYG</td><td>69.</td><td>URR HI. 610MM EMIS-ANG.=</td><td>864 1•</td><td>- NONE CAM+RAD+=</td><td></td><td>67713 KM+</td><td></td><td></td><td></td><td><b></b> 5</td></tr><tr><td>ι 2</td><td>CAM . NAU</td><td>e - 13N</td><td>2 - 160</td><td>SwinG=</td><td>256.</td><td>PHASER PHASER VAPORUMINYG</td><td>69.</td><td>ORB LO.F#8DHM ENIS.ANG.#</td><td>ВЬ N 1.</td><td>™ NONE</td><td></td><td>5125n0 kH•</td><td></td><td></td><td></td><td>87</td></tr></tbody></table>							

510N	RULL UR LAT.		SENSOH		ALT; SCALE AT T : L T SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. HMN.MI PT. FR. LAP KWKH. VERT 8. R
į 2	CAM-HAD .= 2.11N 2.06V	77 *** *** 062140 Swing# 265* PART OF LAC 59 M.V		B&W = NONE L+ CAM+RAD+#	41K 67213 96 +9 22 5 178D+2 KH+ SUN AZH# 91+2
L Z	CAH-NAD-= 2-11N 2-05W		11-22-66 LUNAR ORB LO.F=80MM PHASE≖ 69. EMIS.ANG.⇒ I 'APURUM.HYGINUS		41K 512500 89 .9 2287 1780.2 kM. SUN AZH* 91.2
ŧΖ	CAM-HAD-# 2-898 1-958		II-22-66 LUNAR ORB HI, 610MM PHASE= 69, EHIS.ANG.= 1 APORUM.HYGINUS		41K 67213 97 1+0 22 -+ 5 1780+2 KH+ SUN AZH= 91+2
ر ک	CAN-NAD-# 2-08N 1-949		ll=22-66 LUNAR ORH LU.F.80HM Phase= 69. Ehis.ang.= ! !aporum.hyginus		41K 512500 90 1+0 2287 1780+2 KM+ SUN AZMP 91+2
ι, 2	CAN-MAD = Z-MAN 1+894		II-22-66 LUNAR ORB HI. 610MM Phase= 69. Emis.ang.= 1 Aporum.hyginus		41K 67213 97 1 1 22 - 5 1780 2 KH 5UN AZH 91 2
L 2	CAM+HAD+= 2+u6N 1+83#		II-22-66 LUNAR URB LO,F=80MM Phase= 69. Emis-ang.= I aporum,hyginus		41K 512500 92 1+1 22 =+87 1780+2 KM+ SUN AZM= 91+2
į Ž	LAN. NAD. = 2.44H 1.73H	77 *** *** 062146 SWING# 266* PART OF LAC 59 M.V	11-22-66 LUNAR ORB HI. 610MM PHASE= 69. EHIS.ANG.= I APORUM.HYGINUS	B&W - NONE • CAM•RAD•=	41K 67213 98 1+2 22 -+ 6 1780+2 KH+ SUN AZH# 91+2
į 2	CAH-NAD+= 2+04N 1+72H		11-22-66 LUNAR ORB LO,F=80MM PHASE= 69. EMIS.ANG.= 1 APORUM.HYGINUS		41K 512500 92 1.3 2287 1780+2 KM+ SUN AZM# 91+2
ι 2	LAB-HAD-# 2-02R 1-628		II-22-66 LUNAR ORB HI. 610MM PHASE= 69. EHIS.ANG.= 1 APORUM.HYGINUS	=	11K 67213 9A 1+3 22 ++, 5 1780+2 KM+ SUN A7M= 91+2
į 2	CAM-NAD-= Z-GIN 1-61		11-22-66 LUNAR ORB LO.F.#80MM PHASE* 69. EHIS.ANG.* 1 APORUM,HYGINUS		41k 5125n0 93 1+4 22 = 87 1780+2 KM+ SUN A7M# 91+2
( Z	CAM=NAD== 1.99N 1.50V		II-22-66 LUNAR ORG HI, 610MM Phase= 69. Emis.ang.= 1 Paporum.hyginus		41K 67213 98 1.4 22 6 1780+2 KM+ SUN AZM= 91+2
ι 2	CAM-MAT 1.99N 1.50%	77 *** **** 062150 SWINGE 262* PART OF LAC 59 M*V	II-22-66 LUNAR ORB LO.F=BOMM PHASE= 69. EMIS-ANG.= 1 /APDRUM.HYGINUS	B&W - NONE I. CAM-RAD-#	41K 512500 94 1.5 2287 1780+2 KH+ SUN AZH= 91+2

# 15 # 12	MAG FR.PHOTO PRIN.PT. KULL UR LAT. # MAIN LUNG.	URB GET GHT H-DA-YH CAME H TIMES-HR M SEC (*=ESTIMATED)	RA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. M=N.H1 PT. FR. LAP K*KM. VERT 8.8
į 2	CAM+HAD+= +76N 1+28H	80 *** *** 164909 11-22-66 LUNAR 5 5 5 5 5 63 PHASE 63 63 64 PART OF LAC 59 M.VAPORUM.HYGINUS	ORB HI. 610MM R&W - NONE EMIS-ANG. = I. CAM-RAD. =	47K 77049 108 1+2 28 -+** 1786+2 KM+ SUN AZM# 90+8
į. 2	CAH +76N 1-287	BU *** **** 164909 L1=22-66 LUNAR SWING= 271 PHASE= 63. PART OF LAC 59 M.VAPORUM.HYGINUS	ORB LO.F=RGMH RGW - NONE EMIS.ANG.= I. CAH.RAD.=	47K 5875n0 103 1+2 28 -+** 1786+2 KH+ SUN A7H= 90+8
į 2	CAM-MAU-# +68N 1+16#	BG ••• •••• 164911 11-22-66 LUNAR SW1NG= 276• PHASE= 63• PART OF LAC 59 H•VAPORUM•HYGINUS	ORB HI: 610MM P&W - NGNE EHIS-ANG. = 1. CAH-RAD-=	47K 77n49 in8 1-3 28 6 17B6+2 kH+ SUN AZM= 90+8
į 2	CAM-NAD-= +67N 1+15F	BU 164911 11-22-66 LUNAR Swing= 271. PHASE= 63. PART OF LAC 59 M.VAPORUM, HYGINUS	ORB LO.F=BOHM R&W - NONE EMIS.ANG.= 1. CAM.RAD.=	47K 587500 103 1+3 28 ++87 1786+2 KM+ 5UN A7M# 90+8
ιZ	CAM-NAD-= .65N 1-046	80 ••• •••• 164913 11-22-66 LUNAR Swing= 275. PHASE= 63. PART OF LAC 59 M.VAPORUM.HYGINUS	ORB HI. SIONH BEW NONE EMIS-ANG I. CAM-RAD	47K 77849 107 1+4 28 - 17 1786+2 км+ SUN AZM# 90+8
ί 2	CAM-NAD+# .65N 1.038	80 ••• •=•• 164913 11~22~66 LUNAR Swing= 271• PHASE= 63• AC 59 M•VAPORUM•HYGINUS	EHIS.ANG.= 1. CAM.RAD.=	1786+2 KM+ SUN AZH# 90+8
L Z	CAM-NAD-# +62N 0+91	80 ••• •••• 169915 11-22-66 LUNAR N SWINGE 275. PHASEE 63. I PART OF LAC 59 M.VAPORUM.HYGINUS		
ί 2	2 116 U-61N 0-86W CAM-NAD.** -62N U-900 SOUTHERN PART OF LA	80 ••• ••• 164915 11-22-66 LUNAR N SWING= 271• PHASE= 63• NC 59 M•VAPORUM•HYGINUS	URB LO.F=80HH B&# - NONE EMIS.ANG.= 2. CAM.RAD.= & NURTHERN PART OF LAC 77 F</td><td>47K 587500 LO3 1+6 28 -+87 1786+2 кн+ SUN A7H= 90+7 PTOLHAEUS-KLFIN</td></tr><tr><td>ĘŻ</td><td>CAM-NAD-= .6UN (1+79)</td><td>80 ••• ••• 164917 II-22-66 LUNAR N Shingm 274. Phasem 63. N Part Of Lac 59 N.Vaporuh.Hyginus</td><td></td><td></td></tr><tr><td>L 2</td><td>2 117 9-58N 0-73W Can-Nad57N 0-78I Southern Part of L.</td><td>8U *** *** 164918 11-22-66 LUNAR N SWING= 27U+ PHASE= 63+ AC 59 M+VAPONUM_HYGINUS</td><td>URB LO.F=BOMM BLW - NONE EMIS+ANG+= 2+ CAM+RAD+# & NURTHERN PART OF LAC 77 I</td><td>47K 5875NO 103 1+7 28 -+87 1786+2 KH+ SUN AZH= 90+7 PTOLMAEUS.KLEIN</td></tr><tr><td>į 2</td><td>CAM-NAD-= .57N U-66</td><td>89 ••• ••• 164919 11-22-66 LUNAR SWINGE 274. PHASEE 63. R PART OF LAC 59 N. VAPORUM, HYGINUS</td><td></td><td></td></tr><tr><td>ι 2</td><td>2   118 U+56N U+60W LAM+NAD+= +57N U+65 SOUTHERN PART OF L</td><td>80 *** *** 164920 11-22-66 LUNAR W SWING= 270* PHASE# 63* AC 59 M*VAPUNUM,HYGINUS</td><td>URB LO.F=80HM B&W - NONE EHIS.ANG.= 2. CAM-RAD.= & NORTHERN PART OF LAC 77 A</td><td>48K 600000 IDZ 1.9 Z897 1787.2 KH+ SUN AZH= 90.7 PTOLHAEUS.KLFIN</td></tr></tbody></table>	

			•						
Ħ	MAG FM.PHOIU PI ROLL ON LAT M HAIN M	FONG.	(Facotinites)		TYPE TYPE	AND FILTE	R TUDE PRIN. H=N.HI PT.	AZ ANG. ANG	i. FWD. Lap
ι 2	2 119 U-53N CAM-NAD-= +54N 50UTHERN PAR	U+47W 8U B+53W U OF LAC 59	*** ****  64922 5wing= 270* 7 h*Vaporum*H*G1:	11-22-66 LUNA PHASE= 63 NUS	R ORB LO.F.BOMM • EMIS.ANG.= • NORTH	B&# - NO Z. CAM-RAD. ERN PART OF LAC 7</td><td>NE 48K 600001 1787•2 km• 7 ptolmaeus.klei*</td><td>0 in2</td><td>7 <b>~,</b>A7</td></tr><tr><td></td><td>CAMERIADOR -52N</td><td>0.41W OUTHERN PAR</td><td>SWING= 273.</td><td>APURU AA⊷22-11 6a ±32ahq Uapur,munuqay</td><td>R ORB HI. 610MM • EMIS.ANG.= 5</td><td>86% - NO Z. CAM-RAD-5</td><td>NE 48K 786AS 1787•2 KK•</td><td>7 105 - 2.1 29 5UN AZMm 90.</td><td>7</td></tr><tr><td></td><td>Z 12U U•5UN Camenad•# •51N 50UTHERN PAR</td><td>I OF LAC 59</td><td>H=VAPORUM:HYG1</td><td>105</td><td>6 NORTHE</td><td>ERN PART OF LAC TO</td><td>1/8/02 KX0 7 Projektor vietn</td><td>SUN AZH= 90.</td><td>7</td></tr><tr><td></td><td>121 V-32N CAM-HAD33N S</td><td>1.414 1.444 UUIHERN PAR</td><td>Swing= 275. T OF LAC 59 M.V</td><td>11-22-66 LUNAE PHASE= 626 APORUM,HYGINUS</td><td>R URB HI, 610MM EMIS+ANG.= I</td><td>BGN - NO! L. CAM+RAD+m</td><td>NE 49K 80328 1788+2 KM+</td><td>1 107 1+2 29 SUN A7Mm 96+</td><td>6</td></tr><tr><td></td><td>Z 121 U+32H CAM+HAD+= +33N SOUTHERR PAR</td><td>I UP LAC 39</td><td>M.A. A. BORUH. HAGIN</td><td>lus</td><td>& NORTHE</td><td>RN PART OF LAC</td><td>TIDORE KHE</td><td>SUN AZME YD.</td><td>6</td></tr><tr><td></td><td>CAM-HAD-# -3UN</td><td>I+31W UUTHERN PAR</td><td>SWING 274. I OF LAC 59 M.V</td><td>11-22-66 LUNAR PHASF= 62. PURUM<sub>+</sub>HYGINUS</td><td>ORB H]. 610MM EHIS.ANG.E I</td><td>B&W - NON CAM-RAD-m</td><td>IE 49K 80328 1788•2 km</td><td>106 1,4 30 SUN A74# 90**</td><td></td></tr><tr><td></td><td>Z 1ZZ U+29N CAM+HAD+* +3UH SOUTHERN PAR</td><td>T UF LAC 59</td><td>M.AMBORPH*HAPIN</td><td>u S</td><td>₽ NORTHE</td><td>RN PART OF LAC TO</td><td>1/64+5 KW+</td><td>SUM AZMA POL</td><td>5</td></tr><tr><td></td><td></td><td>JUTHERN PAR</td><td>1 OF LAC 59 M.V</td><td>II-22-66 EUNAR PHASE= 626 APURUM:HYGINUS</td><td>ORB HI: 610MM EHIS:ANG. = 2</td><td>PGN - NON • CAH•RAD•#</td><td>E 50K 81967 1789•2 km•</td><td>106 1+5 30 SUN AZH# 90+6</td><td><b>,</b></td></tr><tr><td></td><td>Z 123 J-26N Cam-Had.= -27N Southern Part</td><td>UP LAC 59</td><td>H.ANDOROM!HAGIN</td><td>UŞ</td><td>& NORTHE</td><td>RN PART OF LAC TO</td><td>PERIMETURE NAME OF THE PERIMETURE NAME OF THE</td><td>200 MSH# AG*P</td><td>•</td></tr><tr><td>ւ 2</td><td>. 124 0.23N Сам.нар.= .24N Su</td><td>1+05# 1+65# UTHERN PARI</td><td>501818 Swing= 274. Of Lac 59 m.v.</td><td>11-22-66 LUNAR - PHASE: 62 APORUH.HYGINUS</td><td>ORB HI. STOME EMIS-ANG. # 2</td><td>B&<sup>M</sup> ~ NON • CAM•RAD•≠</td><td>E SOK 81967 1789•2 km•</td><td>106 E+6 30 SUN AZH# 90+6</td><td><b>~.</b> 6</td></tr><tr><td>L 2</td><td>2 124 0.23N Cah.uad.= .24H Southerh Part</td><td>0%998 81 0 1+04m UF LAC 59</td><td>** *** 201819 Saing= 270 . M.Vaffaruh, hyging</td><td>1-22-66 LUHAR PHA5E= 62. US</td><td>ORB LO.F.BOHM   EMIS-ANG.= 2 & HORTHE</td><td>P.&H = NON CAM•RAD•= RN PART OF LAC 77</td><td>E 50K 625000 1789•2 km• Ptolmaeus•klein</td><td>In2 1+7 30 5UN AZM= 90+6</td><td>87</td></tr></tbody></table>			

BELECONG GREAT OF THE

SION	HULL OR LAT. #		SENSOR AND FILTER	ALTI SCALE AT TILT SUN SIDE, TUDE PRIN. AZ ANG. ANG. FWD. MEN.HI PT. FR. LAP K#KM. VERT 3. %
ر ک	i 125° u•2un u•87% 81 Cam•NaD•# •22N t•92% Southern Part of Lac 59	*** *** 201821 11-22-66 LUNAR Säing* 273* PHASE* 62* M*VAPURUH*HYGINUS	ORB HI+ 610HM Bb4 - NONE EMIS+ANG+= 2+ CAM+RAD+= & NORTHERN PART OF LAC 77 F	50K 81967 105 1+8 30 ++6 1789+2 KH+ SUN AZH= 90+5 PTOLMAEUS+KLEIN
L Z	2 125 0.20N 13.86W 81	*** *** 201821 11-22-66 LUNAR Swing= 270 PHASE= 62.		50k 625n00 102 1+8 30 -+87 1789+2 KH+ SUN A7M= 90+5
ί2	LAM-HAD-= -19N H-78N	Swing= 273. PHASE= 62.	ORB HI. 610MM B&W - NONE EMIS-ANG. = 2. CAM-RAD. = & NURTHERN PART OF LAC 77 I	50K 81967 105 1+9 30 → 6 1789+2 KM+ SUN A7M= 90+5 PTOLMAEUS+KLFIN
ι 2	CAM.NAD.= .19N U.78A	541NG= 270. PHASE= 62.	ORB LO.F.=80MM BG# - NONE ERIS.ANG.= 2. CAM.RAD.= G NORTHERN PART OF LAC 77	50K 625000 102 1+9 30 +.87 1789+2 KM+ SUN A7H= 90+5 □TOLMAEUS.KLEIN
ر ک	CAM-HAD. # .16H 0.65#	Swing= 273. PHASE= 62.	URB H1. 610MM R6W - NONE EMIS.ANG. = Z. CAM.RAD. = & NURTHERN PART OF LAC 77 I	1789.2 KH. SUN AZH# 90.5
į 2	CAM-NAD-# .16H U+64#	5w14G= 270+ PriASE* 62+	ORB LO.F=BOHM BLW - NONE EMIS.ANG.= Z. CAM.RAD.= L NORTHERN PART OF LAC 77	50K 625000 102 2+1 3087 1789+2 KH+ SUN AZH= 90+5 PTOLHAEUS.KLEIN
ί 2	CAM-NAD .= .13N 0.52M	5 NING = 273. PHASE = 62.	ORB HI, 610MM NG# - NONE EMIS-ANG.= 2. CAM-RAD.= G NORTHERN PART OF LAC 77	
ι 2	2 128 U+12H (J+44% 81 CAN+HAD+= +13N U+51W SOUTHERH PART OF EAC 59	••• •••• 201827 11-22-66 LUNAR  5wing= 270	ORH LO.F=80HM B&W - NONE EMIS.ANG.= 2. CAM.RAD.= & NORTHERN PART OF LAC 77	51K 637500 102 2+2 3087 1790+2 KH+ 5UN AZH+ 90+5 PTOLHAEUS,KLFIN
ι 2	1 129 U+645 1+63W 82 CAM+NAD+= +635 1+67W NORTHERH PART OF LAC 73	••• •••• 234714 11-22-66 LUNAR Swing= 272: PHASE= 60. PPOLHAEUS:KLEIN	UHB HI+ 610HH B6# - NONE EHIS+ANG+= I+ CAM+RAD+# & SUUTHERN PART OF LAC 59	52K R5246 104 1+4 31 -,** 1791+2 KH+ SUN AZH= 90+4 M+VAPORUM+HYG1NUS
į. Z	2 127 U+L45 1+62# 82 CAH+HAD+= +U35 1+66# HUNTHERN PART UF LAC 77	••• •••• 234714 11~22~66 LUNAR Swing= 267•	ORB LO.F=BOHM BLW - HONE EMIS.ANG.= 1. CAM.RAD.# G SOUTHERN PART OF LAC 59	52K 65UNNU 99 1+431 ++++ 1791+2 KH+ 5UN A7M+ 90+4 M+VAPORUM+HYGINUS
L Z	1 130 U+1/75 1.49% 82 CAM-HAD+= +.65 1+53% NORTHERN PART OF LAC 77	••• •••• 234716 11-22-66 LUNAR Swing= 272• Phase= 60• 7 Ptolhalus•klein	URA HI. 610MM R6W - NONE EH15.ANG.= 2. CAH.RAD.= 6 SOUTHERN PART OF LAC 59	52K 85246 104 1+5 31 -+ 6 1791+2 KH+ SUN AZM# 90+4 M+VAPORUM+HYGINU5
ι 2	CAH.NAD.= .U65 1.53W	*** *** 234716 11-22-66 LUNAR SWING* 268* PHA5E* 60* 7 PTOLMAEUS*KLEIN	EMIS.ANG. 2. CAM-RAD 6 SOUTHERN PART OF LAC	52K 650000 100 1+6 31 ++87 1791+2 KH+ SUN AZH= 90+4 H-VAPORUK-HYGIRUS TO TAIKITCH - NACOTE IN

- HIS HAG FR.PHUTU PRIN.PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. SION RULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. MAIN LONG. ( = LSTIMATED) TYPE H=N.H; PT. FR. LAP K=KM. VERT g , 8

- L 2 1 132 U+135 1-20W 82 \*\*\* \*\*\* 234721 11-22-66 LUNAR ORB H1 610HH B6W NONE 53K 86895 103 1+8 31 6
  LAM-HAD-# +125 1-25W 5WING= 272 PHASE 60 ENIS-ANG. 2 CAM-RAD-# 1792-2 KM+ SUN AZM# 90+4
  NONTHERN PART OF LAC 77 PTOLHAEUS-KLEIN 6 SOUTHERN PART OF LAC 59 H-VAPORUH-HYG1NUS
- L 2 2 132 U+135 1-19W 82 ++\* ++\* 234721 11\*22-66 LUNAR ORF LO-F#80HH 86W NONE 53K 6625HD 1HO 1+8 31 ++87 CAH+HAD+# +125 1+25W 56ING# 268+ PHASE# 60+ EN-5+ANG+# 2+ CAH+RAD+# 1792+Z KH+ SUN A7M# 90+4 NORTHERN PART OF LAC 77 PTDLHAEUS+KLEIN 6 SOUTHERN PART OF LAC 59 M+VAPORUM+HYGINUS
- L 2 I 133 U+165 I+06W 82 +++ +++ 234723 I3-22-66 LUNAR ORB HI+ 61DMH 86W --- NONE 53K 868R5 ID3 1+9 32 --- S CAM+HAD+= +155 I+11W SWING= 271+ PHASE= 60+ EMIS+ANG+= 2+ CAM+RAD+= 1792\*2 KH+ SUN AZM= 90+3 HORTHERH PART OF LAC 77 PTOLHAEUS+KLEIN 6 SOUTHERN PART OF LAC 59 H+VAPORUM+HYGINUS
- L 2 I 134 U+235 U+91W 82 ++\* ++\* 234725 II=22-66 LUNAR ORB HI+ 610MM B6W NONE 53K 86885 103 Z+1 3Z -+ 5 CAM+NAD+W +185 Q+97W SWING= 27I+ PHASE= 60+ EMIS+ANG== Z+ CAM+RAD+W 179Z+Z KM+ SUN AZMW 90+3 NORTHERN PART OF LAC 77 PTOLMAEUS+REEIN & SOUTHERN PART OF LAC 59 H+VAPORUM+MYGINUS
- L 2 i -5 U-235 U-76W 82 ++\* =+\*\* 234728 il=22=66 LUNAR ORB HI. 610HM 86W NONE 53K 86RR5 103 2.2 32 -, 4

  CAM-HAD+# +215 U-83h Shing# 271. Phase# 60. EMIS-ANG.# 2. CAM-RAD+# 1792-2 KM. SUN AZM# 90-3

  NORTHERN PART OF LAC 77 PTOLMAEUS-KLEIN 6 SOUTHERN PART OF LAC 59 M.VAPORUM.HYGINUS
- L 2 | 136 U-265 U-618 82 -- = === 23473U ||-22-66 LUNAR URG HI-610HH BGW NONE 54K 88575 103 2-4 37 -- 4
  LAM-NAU-= -245 U-68W Shing= 271- PHASE= 6G- EHIS-ANG-= 3- CAM-RAD-= 1793-2 KM- 5UN AZM-9D-3
  HORTHERN PART OF LAC 77 PTOLNAEUS-KLEIH 6 SUUTHERN PART OF LAC 59 H-VAPORUM-HYGINUS
- L Z 2 136 U-205 E-6UN B2 000 0000 234730 11-22-66 EUNAR URB LO-F#RONN RGN -- NONE 54K 675000 100 2-4 32 --.87

  CAN-NAD-0 -245 J-67W SWINGE 26B- PHASE= 6G- EMIS-ANG-= 3- CAM-RAD-= 1793-2 KM- SUN A7M= 90-3

  NOKIMEND PART UF LAC 77 PTOLMAEUS-KLEIM -- SUUTHERD PART OF LAC 59 H-VAPORUM-NYGINUS

SOUTHERN PART OF LAC 59 M. VAPORUM . HYGINUS

SUN AZME 91+8

# 15 \$10N	MAG FR.PI HOLL US H MAIS	łOTO PR ł Lat•	IN.PT. (	386 # 1	GET THESTIM	GHT H SEC HATEDI	H=DA=TR	CAH	ERA-LENS SENSOR TYPE	OR	FILM-E	XPOSUR AND F	E ILT <sub>E</sub> R	TUDE M=N.H	PRIN. I PT.	ĄZ	L T SUN ANG. ANG. FH. VERT	F#D.
L 3	2 /3 CAM·NAD·= ŁASTŁ	7+59H 4+99N NN PAHT	6+6(.E 5+6GE UF LAC	56 •• 59 H	SWING=	034130 177. 14.HYG10	2=17=67 PHASE: IUS	LUNAR • 101•	ORB LO.F EHIS.AF	**80HH *G.= 55 Westen	RGW N PART	CAM+R OF L	NONE AD•m AC AO	63K 1802•2 J•CAESA	787500 KH+ R.SARINE	20 511N 20 ML,	52+5 7 Azh= 92+4 ien	-,••
( J	E 84 CAM-MAD.= TUUC	1.618	2.92E		5 N I N G =	32,		16.	EHIS.A!	4G.= 71	•	CAM.R	AD.m	1786.2	KM.			
_	2 84 CAM+HAD+= 50UTE	1.0111	2.93E		Sminom	32.		15.	EHI5.A	4G.= 71	•	CAH+R	AD	1786.2	KM+			
ι 3	I 85 CAM-NAD-=	2.52N	1 - 30W		S#ING=	178.		100.	EMIS.A	-								
į 3	2 85 Camedade=	2 = 5 2 N	1 • 29W		SAING=	178.		100.	EMIS-A	NG.= 60	B •	CAM .R	AD • =	1788+2				
	1 86 CAM+HAD+=	1.83N	1.33#		Swing=	2.		70.	EHIS.A									
į 3	2 86 Cah÷Nab•*	1.838	1.33#		SAING#	3•	2-18-67 Phase: /aporuh:h	70.	EH15.4	F=80MH NG•= 24	86W	= CAH+R	NONE AD.=	47K 1786+2	58750N KH•	203 500	23+6 13 AZH= 91+6	-,**
ί3	1 87 CAM-NAD-=	1.784	1 - 20#		Sw1NG=	2.	2-18-67 PHASE: APORUM.H	70.	ORB HI. EHIS.A	610MM NG.= 24	B6W	- CAH+R	NonE AD•=	47K 1786+2	77049 KM+	202 588	23+6 13 A7M= 91+6	-, 5
ι 3	2 67 Cam-Nad-=	1.784	1 . 20 W		SWING-	2•	Z#18-67 PHASE: H,KURDGA	70.	EHIS.A	F=80MM NG.= 24	96W  -	CAH•R	NONE	47K 1786•2	5875nn KH•	202 5UN	23+5 13 AZM# 91+F	<b>-,</b> 87
ι 3	å d6 Cam•NaD•≡	1+11N 1+73H S	1+33# 1+07# OUTHERN	6 <sup>4</sup> ••	* **** Swing= Of lac	07321 <sup>4</sup> 2• 59 Met	2-18-67 Phase: /apuruh.h	LUNAR 70. Yginus	ORB HI. EMIS.A	618MM Ng.= 24	#6# i•	- CAH+R	NONE AD•#	<sup>4</sup> 7K 1786•2	77849 KM•	202 50N	23.6 13 AZMm 91.6	-, 5
ί3	2 88 Camanadas	1.738	1 • 86#		SAING	2•	2+18-67 PHA5E: /APORUH.H	- 70-	EHI5.A	F=80MM NG.= 24	96#  -	- CAH+R	NONE AD•≢	47K 1786•2	5875n0 kH+	282 SUN	23+5 13 AZM# 91+6	-,87
ι 3	1 89	LeuóN	1.19#	64 •	• ••••	073216	2-18-67	LUNAR	ORB HI.	MMOIA	86%	-	NNNE	47K	77049	202	23.6 13	-, 5

Swing= 1. PHASE= 70. EHIS.ANG.= 24. CAM.RAD.= 1786-2 KH.

SION	MAG FR.PHUTU PR RULL UR LAT- B HAIH B	<b>1</b>	TIMES-NR M	T M=DA=YR SEC U)		SENSOR	FILM-EXP A	OSURE ND FILTER	ALTI SCAL TUDC : MmN.HI KEKM.	PRIN.	a Z	L T SUN S ANG. ANG. FR. VERT	FWD. LAP
<u>( 3</u>	2 89 1.00N CAN.NAD.= 1.68N	11.934	Swille i	216 2-18-67 . PHASE:	<b>.</b> 70.	ORB LO.F=80MM EMIS.ANG.= 24	86₩ i• C	- NONE	47K 1786+2 KI	587500 M•	2n2 SUN	23.5 13 AZH= 91.8	<b>-,</b> 87
ι 3	1 96 1-01N CAM-NAD-= 1-63N	0.41%	วพไทG= 1	3219	- //.	ORB HI. 610MM EMIS.ANG.= 24	86W 6 C	- NONE Amerades	46K 1785•2 K	75410 H•	201 SUN	23+6 13 AZM# 91+8	-, 6
<u>.</u> 3	2 90 Iouin Camonado= 1.638 Squihen Par					URB LO.F#80HH EHIS+ANG+# 2* & NORTHE					201 50N	23+5 13 AZM= 91+8	87
ί3	1 91 U-96N CAM-NAD-= 1-58N	J.68w	5 NING ≈ I	3221 2-18-67 1. PHASE 7 H.VAPORUN.H	# 7G.	ORB HI. 610MM Emis.ang.= 24	я <i>ь</i> н 4. с	- NONE	46K 1785.2 K	75410 M.	20 L SUN	23+6 14 AZM# 91.7	6
L 3	2 91 U+96N CAH+HAD+= I+58H SUUTHERN PAR	U•67ti	*** **** 873 Swing= 1 9 m*vaporum;t	Te PHADE	LUNAR = 70.	ORB LO.F=BOMM Emis=Ang.= 2' & Northi	, ,	~!! • !! ~			201 SUN	23.5 14 AZM= 91.7	-,87
ί3	1 92 U-91N	U.80W 64	••• ••• U7: Suing= 6	3223 2-18-67	<b>= 70.</b>	UPR HT. 610HM EHIS.ANG.= 2	86W 4. (	- NONE	46K 1785+2 K	75410 H+	201 5UN	73+6 14 AZM# 91+7	7
ί3	2 92 U+91N	0.79# 64 0.55#		3223 2-18-67 L• PHASE	a linia m	ORB LO.F.BOMM EMIS.ANG.R 2 6 NORTH	7.	A CI T K A II T E	4 / U J · L			73+5 14 AZH# 91+7	<b></b> 87
į 3	1 73 0.86 <sup>14</sup>	U+67# 64	*** *** 07. Swing= 36	3225 2-18-67	≈ 70•	ORB HI. 610HH EMIS.ANG.= 2	86# 4. (					73+6 14 AZM= 91+7	7
Ĺ <b>3</b>	2 93 0°B6N Can•Had•= 1°48B Southean Pa	. 61.79.00	Switze	11 - PUASI	. a. 79.	ORB LO.F=BOHM EMIS.ANG.# 2 & NORTH	.7.	Chiaskylles	11,000			23+5 14 AZH= 91+7	88
ن ع	1 94 d+92N	1.63# 65	11 SwillG=	0110 2-18-63	UNAR		86W	- NONE	45K	73770	204	18+2 15 AZMm 91+8	-,**
ر ٤	2 94 U+92N Сам-нар.= 1+16N	1.528	Swing=	0110 2-18-6; 3. PHASE 9 M.VAPORUM.	L= 72 •	URB LU.F.#80MM EMIS+ANG.# 1	864 0.	None Cam∙rad+=	£ 45K 1784+2 I	562500 KM•	2n4 SUN	10+1 15 AZH= 91+8	-,**
ι 3	1 95 U+87N	1.51# 65 1.41#	Sulliga	n. 12 2=18=6	7 LUNAR ED 72.	EWI> * WIG * # 1	1 #&#  0•</td><td>~ NON( Ca∺•RaD•=</td><td>E 45K 1784+2 (</td><td><b>7377</b>0 KM+</td><td>203 SUN</td><td>10.2 15 AZH# 91.7</td><td>-, 7</td></tr></tbody></table>						

CAM+RAD+# 1784+2 KM+ SHN AZH# 91+7

CAN-NAD-# .85N 0.71W SXING\* 358. PHASE\* 72. EMTS-ANG-\* 10.
SULTHERN PART OF LAC 59 N. VAPORUM. HYGINUS

SIUN	MAG FRIPHOTO PRIN.PT. RULL OR EAT. g HAIN LUNG.	UKB GET GMT # TIMES+HK M SEC [ #ESITHATEU]			POSURE AND FILTER	ALTI SCALE AT TUDE PRIN. N=N+HI PT. K=KH+	AZ ANG. ANG.	F#D.
ί 3	2 95 U-87N 1-51W CAM-NAD-= 1-12N 1-40W SUUTHERN	65 *** ****   [10]   2 Swing# 3*   Part of Lac 59 H.	PHASE= 72.	URB <u>E</u> O• <sup>F</sup> #80MM, 8&W EMI5•ANG•# 10•	- NONE CaM.RAD.≠	45 <sub>K</sub> 562500 1784•2 KM•	203 10+1 15 SUN AZM# 91+7	-, R7
L 3	1 96 U-83N 1-39W CAM-NAD+# 1-08B 1-29W SOUTHERN	65 ••• ••• 110114   SWING# 2•   PART OF LAC 59 H•	PHASE = 72.	ORB HI. 617HM 86W EMIS.ANG.= 10.	= NONE CAM+RAD+=	45K 73770 1784+2 KH+	202 10-1 15 SUN AZH= 91-7	-, 7
ι 3	2 96 J.B3N 1.39% CAN.NAD.= 1.U7N 1.28% SOUTHERN	65 *** **** 110114 SWING= 2* PART OF LAC 59 Nu	PHASE = 72.	ORB LO.F=BONK R&W EMIS.ANG.= 10.	- NONE	45K 562500 1784•2 %M•	203 10+1 15 SUN AZM# 91+7	-,87
ί 3	1 97 U-78H 1-27W	,5 *** **** 110116	2-18-67 LUNAR Phase= 72.	ORB HI. 610MM B&W EMIS-ANG.= 10.	- NONE	45K 73770 1784•2 KM•	201 10+1 15 5UN AZM# 91+7	~. 6
L 3	2 97 4-78N 1-27N CAM-MAD== 1-43N 1-17N	65 *** **** 110116	2-18-67 LUNAR PHASE= 72.			45K 5625(10) 1784+2 KH+		
ز غ	1 98 0-74N 1-15W Cant-Nau-* -99N 1-06W Suuthern	65 *** **** 110118 5	PHASE= 72-		- NONE	45K 7 <sup>3</sup> 770 1784+2 KM+	201 10+1 15 SUN AZH# 91+7	-, 5
_	2 98 0.74N 1.15W Cam.nad.= .98N 1.05i Southeri	_	PHASE= 72.			45K 562500 1784•2 km•		
ξ 3	1 99 0-69N 1-03W CAM-MAU.= -94N 0-94I SOUTHERI	65 ••• •••• 114120	PHASE* 72.	URH HI. 610MM B6W EM15.ANG.= 10.	None  CAH•RAD•  ■	45K 7377N 1784•2 KM•	200 10+1 15 SUN AZ "= 91+7	<b>~.</b> 6
ι .	2 99 0+69N 1+03W CAM+HAD+# +74N 0+930 500 HERN PART OF L	a 5wtu6=360a	PHASE 72.	ORB LU-F#80MM B&# EMI5+ANG-# 10. & NORTHERH PAR</td><td>CAM • RAD • =</td><td>1784+2 KM+</td><td>204 YEUM LIAL</td><td>87</td></tr><tr><td>ιι</td><td>1 100 0+65N 0+91W CAH+810+= +70N 0+82 SOUTHER</td><td>65 *** *** 11U122 W Swing* 359* N Part Of Lac 59 H</td><td>PHA5E# 72.</td><td>UHB HI. BIOMM BEN EMIS-ANG.= 10.</td><td>T NONE CAM+RAD+=</td><td>45K 73770 1784•2 KM•</td><td>199   10+1 15 SUN AZM# 91+7</td><td><b>-,</b> 5</td></tr><tr><td>ι 3</td><td>1 AM . JAD . # . 400 0 - 47</td><td>w 5ainte=359a</td><td>PHASE= 72.</td><td>ORB LO.F.#80HH B&W EHIS.ANG.# 10. & NORTHERN PAR</td><td>CAM+RAD+=</td><td>1784+2 KH+</td><td>SUN AZM# 91+7</td><td>-,87</td></tr><tr><td>د ن</td><td>1 101 0-60N 0-79N</td><td>45 ma# ma#a 11n125</td><td>5 2-18-67 (UNAR</td><td>WAS MILL ATOMM FAW</td><td>+ BONE</td><td>45k 73770</td><td>199 10+1 15</td><td>•. 5</td></tr></tbody></table>				

									"GE 153
	MAG FR.PHUIO P N HULL OR LAI # MAIN # 2 1J1 U.6UN	CONG.	( = ESTIMATED)		TYPE	PARISH	M=N+H1 PT.	AZ ANG. A FR.	LAP
. 3	2 1JE U-6UN CAM-NAD-= -85N SOUTHERN PA	U+70% RI OF LAC 59	M.AbohnH.HACIN	PHASE# 72, US	EMIS-ANG.= 10. 6 NORTHERN	CAM+RAD+m CAM+RAD+m PART OF LAC 77	. 45K 562500 1784•2 km. PTOLMAEUS,KLFIN	199 10.1 5UN AZM 9	1587
	i iuz 4.84N Camenad== 3.32N t	WESTERN PART	OF LAC 59 M.V	PHASE# BZ. APORUM.HYGINUS	EMIS <sub>ká</sub> ng <sub>e</sub> m 43.	CAM+RAD+=	52K 85246 1791+2 KH+	360 41+2 Sun Azm= 9	9 -,••
	2 1U2 4.84N CAM.NAD.= 3.32N *	COIFKN I WALL	OF LAC 59 H.V.	APORUM . HYGINUS		CHUTHRUSS	1771 • 2 KH •	SUN AZME Y	2+2
		24 DE FARI	UF LAC 59 M.V	APORUM.HYGINUS	_		46K 75410 [785+2 KH+	204   19+0   SUN AZM# 9	14 -,** 1,7
	2 103 G+93N CAM+NAD+≈ 1±40N	S. W. PART	OF LAC 59 M.VA	.PHASE 70. PORUM.HYGINUS	EMIS-ANG.= 19.	CAM+RAD+#	46K 575n00 1785•2 KM•	2n5   18+9   SUN AZH# 91	14 -,•• 1•7
		S. W. PART	OF LAC 59 M.VA	PHASE# 70. PORUM.HYGINUS	EMIS.ANG. 19.	CAM+RAD+#	46K 75410 1785•2 KM•	SUN AZH# 91	. 7
	2 1.4 U+74N CAM+NAD+= 1+22N 5+ #+ PART	OF EME BY	H.ALDRON HACTRO	S	& Ne Ne P	ART OF LAC 77 5	TOLMAFUS N. FIN	200 YSH# A1	• 7
	CAM-MAD-= 1.03N	5.02W S. W. PART	5wing* 0. Of Lac 59 Neva	2-18-67 LUNAR PHASE# 70. PORUM:HYGINUS	ORB HI. 610MM B&# EMIS.ANG. = 19.	- None Camerades	45K 73770 1784•2 KM•	201  8+9   SUN AZH= 91	• 7
	Z IUS U-SON CAM-HAU-= I-U3N S- H- PART	UP LAC SY	U.AMBAHAM #HACIMA	S	& N. W. P.	ART OF LAC DE	1/04+2 KM+	SIM AZM# 91	• 7
	CAM-NAD-# -84N	4+53W 5+ W- PART	541NG= 359. OF LAC 59 M.YA	2-18-67 LUNAR PHASE# 70. PORUM.HYGINUS	URB HI. 610MM B&W EMI5.ANG. = 17.	■ NONF CAM+RAD+=	45K 73770 1784•2 KM•	290   18+9   1 5JN AZH= 91	• 6
į 3	2 1.6 U-37N CAM-NAD-# -84N 5- 6- PARF	4+70# 67 • 4+52# Uf EAC 59	** **** 175826 Swing= 359* M*Vaporum*Htginu:	2-18-67 LUNAR Phase= 70+ S	CRB LO.F=80MM B&w EMIS.ANG.= 19. & N. W. PA	* NONE CAM+RAU+# ART OF LAC 77 P	45K 562500 ; 1784+2 km+ Tolhaeus,klein	200 [8.9 ]! Sun azh= 91	5 -,50 •6
į j	2 107 0+375 CAM+NAD+= +245 N+ h+ PARE			2-19-67 LUNAR PHASE= 71-		HONE	44K 550000 1	:99 5+1 16 SUN A7H# 91;	3 <b></b>

- 14

L 4 1 96 15-185 10-67E 18 \*\*\* \*\*\* \*\*\* 171241 5-17-67 LUNAR DRB HI, 610MM 86% - NDNE 2722K 4462295 13R +6 22 --46

CAM-NAD-= 14-455 9-99E SWINGE 324+ PHASE= 69+ EMIS-ANG== 2+ CAM-RAD-# 4461+2 KM+ SUN A7M= 83+2

LAC 78 THEUPHILUS : LAC 77 PTULMAEUS+ : LAC 95 PURBACH+AR : LAC 96 ALTA1 SCARP-GEBER & LAC 59 H-7APORUM-HYG

L 4 1 97 12.97N 9.66E IB \*\*\* \*\*\* 17432B 5=17-67 LUNAR ORB HI. 610MM B6W - NONE 2705K 4434426 245 1.4 27 -.17

CAM-NAD-\*\* 13.99N 11.76E . SWING\*\* 60. PHASE\*\* 65. EMIS.ANG.\*\* 4. CAM-RAD-\*\* 4444.2 KM. SUN AZM\*\* 94.7

LAC 57 M.VAPONUM.HYGINUS I LAC 60 J.CAE5AR.SABINE.JANSEN ! LAC 42 M.SERENITY.DAWES & LAC 41 APENNINES.HA

L 4 1 101 15-175 3-83E 19 \*\*\* \*\*\* 051444 5-18-67 LUNAR ORB HI 610MM 86W - NONE 2720K 4459016 150 \*5 21 --45

CAM-NAD-= 14-455 3-38E SWING= 336\* PHASE= 69\* EMIS-ANG== 1\*\* CAM-RAD\*= 4459\*2 KM\* SUN AZM= 83\*4

EASTERN PART OF LAC 77 PTOLMAEUS\* : LASTERN PART OF LAC 95 PURBACH\*AR : LAC 59 M\*VAPORUM\*HYGINUS G LAC 96 ALTAI SCARP\*G

L 4 2 103 41-02R 11-28E 19 000 0000 G61816 5-18-67 LUNAR ORB LO.F=80MM 86W -- NONE 2927K 36587500 107 1-7 22 --000 CAM-NAD-= 42.76N 7-57E 5HING# 272" PHASE# 72" EMIS-ANG.# 5" CAM-RAD-# 4666.2 KM 5UN AZM#110.7 LAC 26 EUDOXUS-BURG FOR SPHERE FAC 1 NoPOLE NEARSIDE BYRD-PEARG LAC 6

L 4 2 107 42-405 6-45E 20 \*\*\* \*\*\* 164442 5=18=67 LUNAR ORB LO-F=80MM B&W \*\* NONE 2982K 37275000 94 5-0 22 \*\*\*\*

CAM-HAD-\*\* 42-265 5-42% SWING\*\* 273\* PHASE\*\* 81\* EM15-ANG-\*\* 14\* CAM-PAD-\*\* 4721-2 KM\* SUN AZM\*\* 67-9

LAC 112 TYCHU-STOFLEH : W>1/2 MOON SPHERE : LAC 59 M-VAPORUM-HYGINUS & LAC 79 COLOMBO-NE-M

L 4 & &U8 & 14.265 & 2.368 & 20 ... 40.0 171651 5-18-67 LUNAR ORB HI. 610MM B68 - NONE 2719K 4457377 77 ... 45 21 ... 43

CAM.NAD. 14.455 3.178 SWING 262. PHASE 70. EHIS.ANG. 1. CAM.RAD. 4458.2 KM. SUN AZM. 83.8

CENTRAL PART OF LAC 77 PTOEMAEUS.KLEIN : CENTRAL PART OF LAC 95 PURBACH.AR 6 5. W. PART OF LAC 59 M.VAPORUM.HY

L 4 I IUP I3-79N 3-58W 20 -- - - 174732 5-18-67 LUNAR ORB HI- 610HM B&W - NONE 7693K 4414754 267 1-3 21 -- 7

CAM-HAD-= 13-89N 1-48M SWING= 82- PHASE= 66- EMIS-ANG= 3- CAM-RAD-= 4432-2 KM- SUN AZM= 94-7

MESTERN PART OF LAC 59 M. VAPORUM, HYGINUS ; WESTERN PART OF LAC 41 APENNINES, & NORTHERN PART OF LAC 77 PTOLMAEUS, KL

ALTI SCALE AT TILT SUN SIDE. HIS MAG FR. PHOTO PRIN. PT. ORB GET GHT M-DA-TR CAMERA-LENS OR FILH-EXPOSURE AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SENSOR SION HOLE OR LATE # TIMES-HR M SEC fR. TYPE MEN.MI PT. LAP # # MAIN LUNG. (\*=ESTINATED) VERT K=KM. L 4 1 113 14.645 9.51W 21 0.0 0.00 0519UU 5-19-67 LUNAR ORB HI. 610HH 86W - NONE 2718K 4455738 123 .2 20 -.47 Cam.nad.= 14.455 9.81W Swings 310. Phase= 70. EMIS.ang.= 1. Cam.rad.= 4457.2 km. 5UN AZM= 83.9 & LAC 58 COPERNICUS, RE LAC 77 PIOLMALUS, : LAC 76 RIPHAEUS M : LAC 95 PURBACH.AR : LAC 94 PITATUS.M.NUBIUM - NONE 2687K 4404918 261 148 19 -, 4 L 4 1 114 13.46N 10.97W 21 \*\*\* \*\*\* 05493B 5-19-67 LUNAR ORB H1. 610MM B6W CAM-NAD-= 13-89N 8-098 SWING= 77. PHASE= 66. EHIS-ANG-= 5. CAM-RAD-= 4426-2 KM. SUN AZM- 94-2 I LAC 59 M. VAPORUM. HYGINUS I LAC 41 APENNINES. HAEHUS & LAC 40 TIMOCHARIS.L LAC 58 CUPERNICUS, KEINHOLD L 4 2 131 36.505 23.47W 24 \*\*\* \*\*\* 165252 5-20-67 LUNAR ORB LO.F.BOMM 86W - NONE 2999K 37487500 52 5.0 20 \*\*\*62 CAH-HAD-# 42-205 32-12# SHING# 251- PHASE# 83- EMIS-ANG-# 14- CAM-RAD-# 4738-2 KM- SUN AZH# 74-0 1 M21/2 HOON SPHERE 1 LAC 144 SCOTT, S. POLF NEARSIDE >6 LAC 57 KEPLER, ENCKE LAC 111 WILHELM, ELGEN, MEE \* NONE 100K 163934 274 19+1 18 --\*\* 1 5 1 94 7-36N 5-90E 47 \*\*\* \*\*\* 030242 8-14-67 LUNAR ORB HI. 610MM 36# CANOPADON 1839+2 KM+ SUN AZM# 90+9 CAH-HAD-= 7-26N 7-05E SWING= 180. PHASE= 51. EMIS-ANG.= 20. LASTERN PART OF LAC 59 H. VAPORUM. HYGINUS - NONE 100K 1250000 274 19+2 18 £ 5 2 94 7.37N 5.89€ 47 \*\*\* \*\*\* 030242 8-14-67 LUNAR ORB LO.F=80MM 86W CAM.RAD. 1839.2 KH. SUN A7M 90.9 CAM-NAD-= 7.27N 7.05E SWING= 180. PHASE= 51. EMIS-ANG.= 20. EASTERN PART OF LAC 59 M. VAPORUM. HYGINUS - NONE 190K 163934 275 19+1 18 -. 8 £ 5 1 95 7.65N 5.92€ 47 ... ... 030246 8-14-67 LUNAR ORB HI. 610MM R&W CAM+RAD+# 1839+2 KM+ SUN AZH# 91+R CAM-NAD-= 7-54N 7-07F SWING= 181. PHASE= 51. EMIS-ANG.= 20. EASTERN PART OF LAC SO M. VAPORUM . HYGINUS - NONE 100K 1250000 275 19+2 18 -,87 L 5 2 95 7.66N 5.91E 47 \*\*\* \*\*\*\* 030246 8-14-67 LUNAR ORB LO.F. BROMM BOW CAM-RAD-# 1839+2 KM+ SUN AZM# 91+0 CAM-NAD. 7.54R 7.07E SWING 181. PHASE 51. EMIS.ANG. 20. EASTERN PART OF LAC S9 M. VAPORUM . HTGINUS - NONE 108K 163934 276 19+1 18 -, 8 L 5 4 76 7.93N 5.94E 47 \*\*\* 030251 8-14-67 LUNAR ORB H1. 610HH 86% CAM-RAD == 1839+2 KM+ SUN AZH= 91+1 CAM-NAD. - 7.81N 7.09E SWING- 182. PHASE- 51. EMIS-ANG. - 29. EASTERN PART OF LAC 59 M. VAPORUM HYGINUS - NONE 100K 1250000 276 19+3 18 -.87 £ 5 2 96 7.94N 5.93E 47 ... + +... 030251 8-14-67 LUNAR ORB LO.F=80MM NEW CAH.RAD. = 1839.2 KM. SUN AZM = 91.1 CAM-NAD. 7.82N 7.89E SWING= 182. PHASE= 51. EMIS.ANG.= 20. EASIERN PART OF LAC 59 M. VAPORUM. HYGINUS - NONE 100K 163934 277 19+1 18 - R L 5 1 97 8-22N 5-96E 47 \*\*\* \*\*\* 030256 8-14-67 LUNAR ORB HI. 610MM BG\* CAM+RAD+# 1839+2 KH+ SUN AZH# 91+2 CAM-HAD. \* 8.08N /- IIE SHING # 183. PHASE # 51. EHIS.ANG. # 20. EASTERN PART OF LAC 59 M. VAPORUM . HYGINUS - NONE 100K 1250000 277 19+3 L8 -.87 L 5 2 97 8-23N 5-95F 47 \*\*\* \*\*\*\* 030256 8-14-67 LUNAR ORB LU-F#80MM 86W CAM-HAD- B-UPR 7-11E SWING= 183. PHASE= 51. EMIS-ANG- 20. CAM-PAU+# 1839+2 KM+ SUN AZM# 91+2 EASTERN PART OF LAC 59 M. VAPORUM . HYGINUS

L 5 1 1.8 4.455 1.10W 51 \*\*\* \*\*\* 154446 8-14-67 LUNAR URB H1. 610MM B6W - NONE 97K 159016 269 10.2 1B -.\*\*

CAM-NAD-= +455 0.52M SHING= 175. PHASE= 61. EHIS-ANG-= 11. CAM-RAD-= 1836-2 KH. SUN AZM= 88.5

SOUTHERN PART OF LAC 59 MOVAPORUMONTOLINUS & NORTHERN PART OF LAC 77 PTOLMAEUS.KLETN

N 216v	MAG FR.PHUTU PRIN.PT. URB GET GMT M-DA-YR CAM HULL UR LAT. # TIMES-HR M SEC # MAIN LUNG. (F#ESTIMATEU) #	SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE.  FUDE PRIN. A7 ANG. ANG. FWD.  M=N.MI PT. FR. LAP  K*KM. VERT S. S.
	### 108 U+045 1+10W 51 *** **** 154446 8=14-67 LUNAR CAM+NAD+= +U55 11+52W SWING# 176+ PHASE# 61+ 50UTHERR PART OF LAC 59 H+VAPORUM+HYGINUS	& NURTHERN PART OF LAC 77 F	TOLHAEUS.KLEIN
į 5	I 109 G-22N 1-074 51 ++* ++* 154450 8+14+67 LUNAR CAM-MAD-= +20H G-50H SWING= 177+ PHASE= 61- SUUTHERN PART OF LAC 59 M-VAPORUM-HYGINUS	ORB HI. 610HH B&W - NONE EMIS.ANG II. CAM.RAD. =	97K 159016 271 10+1 18 -, 7 1836+2 KH- SUN AZM= 88+6
( \$	2 109 0-23N 1-08W 51 0-4 0-00 154451 8-14-67 LUNAR CAM-HAD-4 -21N 0-50W SWING# 177. PHASE# 61. SOUTHERN PART OF LAC 59 M-VAPORUM.HYGINUS	FM15+ANGAR 11. CAMADAD	1934-7 MM - CHN 47M- 89-4
ι 5	1 110 0-49N 1-35W 51 800 0000 154455 8-14-67 LUNAR CAM-NAD-* +46N G-48H SWING* 1780 PHASE* 610 SUUTHERN PART OF LAC 59 MOVAPORUM-HYGINUS	ORB HI. 610HM B6W - NONE EMIS.ANG.# II. CAM.RAD.#	97K 159016 272 10+1 18 +. 7 1836-2 km+ Sun Azm= 88+7
ί5	2 110 0=56N 1=06W 51 ++* ++* ++ 154455 8-14-67 LUNAR CAN+NAD+* +47H 0+48% 5WING= 179+ PHASE* 61+ 5UUTHERN PART OF LAC 59 M+VAPORUM+HYGINUS		
ί 5	I III 0.76N 1.03W 51 154459 8-14-67 LUNAR CAN.NAD 72N 0.46h SWING 180. PHASE 61. SOUTHERN PART OF LAC 59 M.VAPORUM.HYGINUS	ORB HI. 610MM B6# - NONE	97K 159016 274 10+1 18 ** 7
	2 111 U=77N 1-04W 51 e=# e=# 154500 8=14=67 LUNAR CAM+HAD=# -73N D=46M SWING= 18D= PHASE# 61= 50UTHERN PART OF LAC 59 M=VAPORUM=HYGINUS	EMIS•ANG•= II• CAM•RAD•= 6 NORTHERN PART OF LAC 77 P	1836+2 KH+ SUN AZH# 88+7 TOLMAEUS,KLEIN
լ 5	2 112 0-135 1-124 52 000 0000 185549 8-14-67 LUNAR CAM-HAD-= 000 2-274 SWING= 3. PHASE= 91. NORTHERN PART OF LAC 77 PTOLHAEUS-KLEIN	ENISTANCE 21 CANEDAD	1837.2 KM. SUN AZM. BR.4
ί, 5	1 113 0-15N 1-09W 52 185554 8-14-67 LUNAR CAM-NAD	ORA HI . 610MM REW - NONE EMIS . ANG . * 21 . CAM . RAD . *	98K 140656 95 19.8 19 6 1837.2 km. Sun Azm. 88.5
įδ	2 113 U+15N 1+10W 52 *** *** 185554 8-14-67 LUNAR CAM-MAD+= +27N 2+25# SWING= 2+ PHASE= 91+ SOUTHERN PART OF EAC 59 M+VAPOHUM+HYGINUS	EMIS.ANG. # 21. CAN.PAD. #	1027.2 KM. SUN AYM GO.F
	1 114 0.43N 1.07W 52 000 0000 185558 8-14-67 LUNAR CAH.RAD. 54N 2.23H SWING 1. PHASE 91. SUUTHERN PART OF LAC 59 M.VAPORUM.HYGINUS	EMIS-ANG.# 21. CAM-RAD.#	1836.2 KM. SUN AZH= 88.,
r p	2 114 U+44N 1+08H 52 +++ ++++ 185559 8-14-67 LUNAR CAM+NAD+= +54N 2+22M SWINGW 1+ PHASE 91+ 50UTHERN PART OF LAC 59 M+VAPONUM+HYGINUS	URB LO,F=BOMM B&# - NONE EMIS*ANG.* 21. CAM*RAD*= & NORTHERN PART OF LAC 77 P</td><td>97K 12125NO 95 19+6 19 -,87 1836•2 km• Sun Azm¤ 88+6 Tolmaeus,klein</td></tr></tbody></table>	

510N	MAG FR,PHUTO PRI HULL UR LAT. # MAIN #	*	TIMES-HR M SEC		RA-LENS OR FILE SENSOR TYPE	4-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. NEN.MI PT. KEKH.	AZ ANG. ANG.	FWD. LAP
L S	1 115 0.724 CameMaDe= eBIN St	2 • 20 A	*** **** 185603 Swing= 0* T Of Lac 59 H**	PHASE F FL.	URB HI. 610MM B&W EHI5+ANG.= 21.	- None Cam∙rad•≠	97K 159016 1836+2 KM+	94 19+8 20 SUN AZM# 88+7	<b></b> 6
L b	2 115 U+73N CAM+NAD+# +82H SQUTHERN PART	2 • 20 N	SHING= U.	PHASE = 91.	ORB LO.F=BOMM B&W EMIS.ANG.= 21. & NORTHERN P	CAMeRADes	97K 12125n0 1836+2 KM+ PTOLMAEUS,KLETN	SUN AZH= 88.7	
ر 5	1 120+ 12+4un Camenado= 12+4in	4 + 7 7 W	*** **** 012130 SWING# 356* DF LAC 59 M*	PHASE= 83.	ORB HI. 610HH B&# EMIS-ANG.= 13.	- NONE	106K 173770 1845+2 KH+	91 12+0 20 SUN AZM# 92+9	-,00
ί5	2 120 12.41N CAH.NAD.= 12.42H	4 . 7 7 W	SWINGS 356. OF LAC 59 M.	PHASE= 83.	ORB LO.F=80MM B6W EHIS.ANG.= 13.	= NONE CAH•RAD•#	106K 13250n0 1845:2 KM•	91 31+8 20 SUN AZM= 92+9	-,••
ί 2	1 1/1 12.69N Can-Had-= 12.69N	4.750		PHASE # 83.	ORB HI: 610HH B&W EMIS:ANG:= 13:		1845 • 2 KM •		
ι 5	2 121 12+7uh Camehad+= 12+7gn	4 - 75%	*** **** 812135 Swing= 355* of Lac 59 M.	PHASE = 83.	ORB LO.F=80MM BGW EMIS-ANG.= 13.		106K 1325NAN 1845+2 KM+		
L 5	1 122° 12.99N Cam.4ad.= 12.97N	4 - 7 3 W		PHASE # 83.	ORB HI. 610MM B6W EHIS.ANG. # 13.		107K 175410 1846+2 KH+	• -	
ι 5	2 122 13-00N CAM-NAU+* 12-98N	4.736	5wing# 353. OF LAC 59 M.	PHASE® 83.	ORB LO.F.BOMM B&W EMIS-ANG.# 13.	- NONE CAM•RAD•*	107K 1337500 1846+2 KM+	RB 11.9 20 SUN AZM= 93.2	<b></b> 87
	i 123 13+29µ CAM+HAD+# 13+26N	4 . 70W		PHASE= 83.	ORB H <sup>I</sup> . 610MH B6W EMIS.ANG.* 13.		107K 1754;0 1846+2 KM+		
ι 5	2 123 13+30N CAM+HAD+= 13+26N	4 • 7 0 W	SWING# 352. OF LAC 59 H.	PHASE# 83.	ORB EO.F=80MM 86W EMIS-ANG.= 13.	- NONE	107K 13375nA 1846+2 KM+	87 11.9 20 SUN AZHE 93.3	•, A 7
ί 5	2 133 11.500 Cam.nad.= 11.48n N. E. Pari	10.07#	Swing= 178.	PHASE= 60.	URB LO.F. = 80MM B&W EMIS = ANG = 2 12 + & N. #. P	CAM+RAD+=	1842+2 KM+	SUN AZMm 92+2	
ι 5	2 134 12+67N CAM+HAD+= 12+5HN N+ E+ PART	9-98#	Salug. 183.	PHASE 60.	ORB LO.F. BONH BEN ENIS.ANG. = 12. ENIS.ANG. = 12.	CAM • RAD • =	1844•2 KM•	SUN AZM# 92+6	<b>-,</b> 5i

ALTI SCALE AT TILT SUN SIDE. MIS HAG FROPHOTO PRINOPT. URB GET GHT H-DA-YR CAMERA-LENS OR FILH-EXPOSURE AND FILTER TUDE PRIN. AT ANG. ANG. FAD. SENSOR SION HULL OR LATE TIMES-HR M SEC Manoni PT. FR. LAP TYPE HAIN LUNG. (FEESTIMATED) 8 8 VERT K M K H +

- L 5 1 135 13.68N 10.53W 57 \*\*\* \*\*\* 105455 8=15-67 LUNAR ORB HI: BIOMM 86N \*\* NONE 106K 173770 283 11:3 18 -\*\*\*

  CAM:NAD:= 13.7ZN 9.88W SWING= 189. PHASE= 60. EMIS.ANG.= 12. CAM:RAD:= 1845:2 KM. SUN AZM# 93:0

  H: L- PART OF LAC 58 COPERNICUS, REINHOLD 6 No W. PART OF LAC 59 M.VAPORUM, HYGINUS
- L 5 2 135 13+89N 10-596 57 \*\*\* \*\*\* 105456 8-15-67 LUNAR ORB LO-F#8OMM B&W NONE 106K 1325000 283 11+4 18 -+49

  Chil-Nad-= 13+73N 9-87W SWING# 189+ PHASE# 60+ EM15+ANG+# 12+ CAM+RAD+# 1845+2 KM+ SUN AZH# 93+0

  N+ E+ PART OF LAC 58 COPERNICUS,REINHOLD & N+ W+ PART OF LAC 59 M+VAPORUM+HYGINUS
- L 5 1 136 15-15N 10-498 57 \*\*\* .5516 8\*15-67 LUHAR URB H1: 610MM B&W NONE 108K 177049 289 11:5 18 -:\*\*

  CAM-NAD-= 14:91N 9:78W 5h... 75: PHASE= 60: EMIS-ANG== 12: CAM-RAD-= 1847-2 KH: SUN AZM= 93:5

  N: E: PART UF LAC 58 COPERNICUS.REINHOLD 6 N: W: PART OF LAC 59 M:VAPORUM.HYGINUS
- L 5 2 136 I5-16N 10-50W 57 \*\*\* \*\*\* 105517 8"15-67 LUNAR ORB LO-FMBOMM B&W " NONE 108K 1350000 2A9 11-7 18 "-\*\*R

  CAH-NAO-= 14-92N 9-78W SWING= 195. PHASE= 60. EM15-ANG.= 12. CAM-RAD-= 1847-2 KH. SUN A7H= 93-5

  N. E. PART UF LAC 58 COPERNICUS:REINHOLD ; N. W. PART OF LAC 59 M.VAPORUH,HYGINUS ; LAC 40 TIMOCHARIS & LAC 41 AP

TOTAL PHOTUS IN THIS GROUP # 205

* 210N	₩ KOLL	OR Main #	PRIN.PT. LAT. LONG.	Ħ	TIMES-HR M	ED)		MERA-LENS OR Sensor Type	FILM-E	EXPOSURE AND FILTER	ALTI S TUDE M=N.M K=KH.	 AZ RNO	S. ANG.	
MF2	CAM.r	NAD . # 4.8	54 31.87E 32N 34.44E AC 61 TARU		Swing a		PHASE TO	E ORO LO.F.BOHM EMIS.ANG.= 19 EN PART OF LAC	7.	CAHADADAA	2004 - 2	 SUN AZH		•

- E 1 2 46 3-19N 31-21E 47 \*\*\* \*\*\* \*\*\* 182303 8=21=66 LUHAR ORB LO-F#80MM 86h = NONE 86K 10750n0 232 14-8 7 -.\*\*

  CAM-HAD-# 3-65N 31-81E SWING# 51- PHASE# 70- EHIS-ANG# 15- CAM-RAD-# 1825-2 KM- SUN AZM# 88-9

  S- W- PART OF LAC 61 TARUMTIUS-LYELL 6 5- E- PART OF LAC AD J-CAESAR\_SARINE.JANSEN
- E I Z BY JOUCH 14-63E 56 000 0000 014426 8-23-66 LUNAR ORB LUSF-BOMM BEW NONE BOK TOMOTION 232 15-4 7 10 CAM-NAD-- 3-45N 15-21E SWING- 510 PHASE 700 EMISOANG-- 160 CAM-RAD-- 1819-2 KM0 SUN AZM- 88-8
- L I Z 85 U+54N 25-07E 58 \*\*\* \*\*\* 084621 8-23-66 LUNAR ORB LU+F#80MM B&R NONE 57K 712500 12 +4 21

  CAN+NAD+# +52N 25+07E Shing\* 180\* PHASE# 69\* EMIS\*ANG\*# 0\* CAM\*RAD\*# 1796\*2 KM\* 5UN AZM# 88+A

  Se & PART OF LAC 60 J\*CAESAR, SABINE\*JANSEN & N\* E\* PART OF LAC 78 THEOPHILUS\*KANT

- L 1 2 90 U-37N 25-83g 58 \*\*\* +\*\*\* 084634 8-23-66 LUNAR ORB LO.F=80MH B&N MONE 56K 70BNNO 73 +9 22 --,89 Cam-dado\* -36N 25-80e Swing\* 241° Phase\* 69° Emi5-ang.\* 1° Cam-rado\* 1795-2 km° sun azm# 88°5 S• E• Pari uf lac 6u J\*Cae5ar,5abine,jansen 6 N, E• Pari of lac 78 Theophilus,kani

CIGN	kom t	DR EATA		TIMES-HR	M SEC		CAMERA-LENS OR Sensor Type		POSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M*N.MI PT. K*K#+	A- 1		LAP
L I		3 3 3 3 4 1	35 OFF	5 at 1 N G =	745.	PHASLE	49. FMISANGA	= 1.	CAMORADOR	56K 700000 1795+2 KH+ THEOPHILUS+KANT	SUN !	1+0 22 12M# 80+5	-,87
<b>. i</b>										56K 700000 1795+2 KH: THEOPHILUS,KANT		1+1 22 A7#= 88+5	88
լ 1	2 93	U • 27N	26.28E !	58 ee* ee*e	084641	8-23-66 LU	NAR ORB LO.F#8	= 1. • 1.	- NONE	S6K 700000 1795+2 KM+ THEOPHILUS+KANT	A3 SUN	1+3 22 AZM# 88+5	-,87
L 1	2 94	U+24N	26.43E !	58 ag* *e** SaithGa	084643	8-23-66 LU	NAR ORB LO.F=8	OMM 86W	= NGNE	54K 703000 1795+2 KH+ THEOPHILUS+KANT	85 SUN	[+4 22 AZM= 88+5	87
ւ ‡	2 95	U+21N	26.58E !	58 *** *** 54116=	084646 254 •	8-23-66 LU PHASE=	NAR ORB LO.F=8	10HH 8&W = 2.	- NONE	56K 700NNQ 1795+2 KM+ THFOPHILUS+KANT		1+6 22 Azm= 88+5	87
ŧΙ		- 4 97 81	1. 170	SwtM6-	254	PHASE	AP. FMISAANG.		CAM•RAD•m	56K 700000 L795+2 KH+ THEOPHILUS+KANT	SUN	1+7 22 AZM# 88#4	R7
į, l	2 97	0 =   44 	26 - 88£	58 +0* ++** Swing=	084651	8-23-66 LL	JNAR ORB LO.F=8	30MM 8&₩ , = 2•	- NONE	S6K 700000 1795+2 KM+ THEOPHILUS,KANT	A7 SUN	1+6 23 AZM# 88+4	-,87
լ \$				S. tuc.	250.	DU.S.	LO. EMISANO.		CAMERADES	56K 7009NO 1795+2 KH+ THEOPHILUS:KANT	SUN	2.0 23 AZM# 88.4	87
į, I	2 99	<b>₩</b> •∪8N	27 - 18E	58 see 82	084656	8-23-66 L1	UNAR ORB LO.F=8	HOMN 86#	- NONE	56K 700000 1795+2 KH+ THEOPHILUS,KANT	91 SUN	2+1 23 A7H= 88+4	87
į i	a continues	- F - 1	22.24	Saince	259	PHASES	A7. FMISIANG	. = · L +	(Allak #90+#	56K 700000 1795+2 KM+ THEOPHILUS+KANT	347.4	2+3 23 AZM= 88+4	87
į, J		- 6 - 51		Swinks	92.	PHASEM	AR. FMIS.ANG	. <del>-</del> 2 •	LAM • KAU • #	55K 687500 1794+2 KM+ THEOPHILUS,KANT	317.4	1.7 28 A7Mm 88.6	-,**
į i				S . 1	. 02	DHAGE	LO EMISANO.	_ = 1 <u> </u>	CAMERADOS	54K 675600 1793+2 KH+ THEOPHILUS <sub>+</sub> KANT	500	1+3 20 AZM= 89+5	53

•	HAG FR.PHUIU PKIN.PT. N HOLL OR LAI. N HAIN LUNG.	( = ESTIMATED)		TYPE	AND FILTER	TUDE PRIN. Men.mi Pi. Kekme	A7 ANG ANG FWD FR LAP
	2 167 0+28N 12+70E Cam-Nad+= +28N 12+72E 5+ n+ Part UF La				'' OF LAC 74	LHEARHICA2*K*NI	
	2 108 0-16H 13-26E Cam-Nad-= -16H 13-27E 5- 0- Part of La	65 *** *** B9U959 Shing= 110. C 6U J•Caesah.sabine,	8-24-66 LUHAR Phase= 68. Jansen	ORB LO.F=ROMM B&W EMIS+ANG.= O.  N. W. PAR	- NONE CAM+RAD+= T OF LAC 74	53K 662500 1792+2 KH+ THEOPHILLS-KAN7	312 +2 21 +152 SUN AZM# 88c4
	LAM-HADOR - UPN 13-81E Some Part UF Lam	65 ••• ••• 091088 Swingm 260. C 60 J•caesan,sabine,	8-24-66 LUNAR PHASE= 68. JANSEN	ORB LO.F=BOHM 86#  EMIS.ANG.= 0.  6 N. #. PAR	* NONE CAMPRADAS T OF TAC 78	53K	92 •4 22 -•52 SUN A7Mm 88+4
				2 24 114 1 141	I OF LAC AD	J.CALSAK.CARINF.	14 NCFN
		78 THEUPHILUS . KANT		E S. d. PAR	TOF LAC ATT.	1792.2 KM. J.Cafšer.Sarinf.	SUN AZM# 88.3
		. 78 THEOPHILUS, KANT		& S. N. PAR	TOF LAC on .	- 1791+2 KM+ J.CAESAR.SARINE.	SUN A7M# 88+2 Jangen
		PART OF LAC 60 J.CA	ESAR SABINE JA	NSEN	CAM+RAD.=	1789+2 KM+	SUN AZM# 91+3
		PART OF LAC 60 J.CA	ESAR, SABINE, JA	NSEN	Cwm+KvD+m	50K 625000 1789+2 KH+	290 [+4 13 SUN AZH= 91.3
		PART OF LAC 60 J.CA	PHASE= 76. ESAR,SABINE,JA	EMIS.ANG.# I.	- NONE Camerades	50K 81967 1789+2 KH+	285 1+3 13 -, 9 SUN AZH# 91+3
		PART OF LAC 60 J.CA	PHASE≅ 76. ESAR.SAUINE.JA	EHIS.ANG.= 1. NSEN	T NONE	50K 6250n0 1789+2 KM+	291 1.3 1388 Sun A7Mo 91.3
		PART OF LAC 60 J.CA	PHASES 76. ESAR.SABINE,JA	EMIS-ANG.= I. NS£N	CAM+RAD+=	!789.2 KM.	
ιZ	2 45 4.49N 21-17E CAM-NAD-= 4.47N 21-2UE SUUTHERN	59 *** **** 154427 1. Swing* 101* Pant up lac 60 J.Cai	1-19-66 LUNAR PHASE= 76. ESAR,SABINE,JA	ORB LU•F∞BDHM A&# EHIS•ANG•≈ 1• NSEN</td><td>- NONE</td><td>50K 625000 . 1789+2 KM+</td><td>292   1+1   13  88 SUN A7M= 9]+4</td></tr></tbody></table>			

Control and the Control of the Contr

## ORIGINAL PAGE IS POOR LAC 60 J. CAESAR, SABINE, JANSEN

		-	LAT.		86	TIMES-HR	M SEC	H=DA=YR		SENSOR		FILH-E)	-		TUDE	PRIN. PT.	A Z		NG.	-
į 2	L CAH-III	46 4 AD•=	4.450	21+32E		Swinge	96.	11-19-66 = PHA5E BAC, RACSA	76.	EHIS.	. 610NM ANG.¤	86# 1•	- CAM•RA	NNNE D.=	49 <sub>K</sub> 1788•2	80378 KM•	287 SUN	1 * 0 A Z M = 9	13 1•4	-, A
L 2			4.450	21.33£		SHING	102.	ll-19-66 Phase= Aesar.sab	76.	EHIS.	. –					6125BU KM+				-+BA
L d			4.438	21.45E	_	S#ING#	97.	ll-19-66 Phase Aesar,sab	76.	EMIS.						8 <sub>037</sub> 8 KH+				B
L Z			4.428	21.46E		Salnúm	104.	II-19-66 PHASE# AESAR,SAB	76.	EHIS.						6125nn KM•				-,88
ι 2			4 - 4 u N	21.588		SWING a	98.	11-19-66 PHASE= AESAR,5AB	76.	EHIS.						80378 KM+				<b>-,</b> 8
į 2			4.468	21.596		5#!អG≖	107.	11-19-66 Phase* Aesar,sab	76.	£#15.						61750U KH+				88
<u>ر</u> 2			4.37N	21+70E		SWINGE	99.	11-19-66 PHASE= CAESAR.SAB	76.	EMIS.						90326 KM+				8
L 2			4.37%	21+71E		SWING	110.	11-19-66 PHASE= Caesar,sab	76.	EMIS.				_		612500 KH+			14 1.4	88
ړ≥			4.354	21 . A3E		Sain6=	102.	li-19-66 Phases Caesar, sab	76.	EH15.			- Cambra			#U328 KM•			14	<b></b> B
į 2			4.358	21 • 84E		541116=	116.	11-19-66 PHASE= CAESAR,SAB	76.	£#15.						612500	_			<b>-</b> ,8A
ι 2		-	4.186	20.75E	_	S#146=	106.	II-19-66 PHASE: CAESAR,SAU	75.	EMIS.					•	78689 KM.	_		•	-,••
ί 2			4 - 184	20 • 75E		Salaba	114.	11-19-66 PHASt= CAESAR,5AH	75.	EMIS.				-						

PAGE 162

H15 510N #	HULL OR	LAT.	RB GET GMT # 11ME5=HK M SEC {I=EST1MATE0}	•	CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FI	LTER TU	DE EN.HI	LE AT PRIN. PT.	ΑZ	L T S ANG. A FH. VERT	ANG.	IDE: FWD: LAP B: K
L Z	1 52 4. CAM-HAD.= 4	4. 1465 Jos. 478	60 *** *** 191327 SHING# 109. PART OF LAC 60 J.	PHADE	HUNAR ORH HI, 610MM • 75. EMIS-RMG.= : BINE,JRNE	i. CAM-RA		'87•Z K	M •	SUN	AZM# '	V1.4	
L 2	2 52 4. CAH+HAD+# 4	3.140 20.AAF	60 000 0000 191327 Shing= 1170 PART UF LAC 60 Jo	LHYƏFA	LUNAR ORB LO.F#80MM 75. ENIS.ANG.# : JINE,JANSEH	. CAM-RA	NONE 10+= 17	187•2 K	H•	SUN	A7H= '	91•4	
ι 2	1 53 4. Can-Nad-# 4	1.121 21.095	60 *** **** 191329 Shing= 112+ PART OF LAC 60 J-	PHADE=	LUNAR ORB HI. 610MH 75. EMIS.ANG.= BINE.JANSEN		NONE LD+= L7	48k 187•2 k	78689 H+	SUN	•7 <sub>A</sub> ?H= '	15 91.4	-, 9
L 2	2 53 4. Camenade= 4	•14N 2U•99E	Att ma* ma** 191329	9 11-19-66 PHASE=	LUNAR ORB LO.F=80MM 75. EMIS-ANG.=		NONE AD•= 17	48K 787• <i>2</i>	600000 (H•	313 5118	•7 A7H#	15 91+4	-,88
ί 2	1 54 4e Lanenade# 4	•12N 21•11E	Ail 171331	11-19-66   PHA5E	LUNAR ORB HI. 610Mm T5. EHIS-ANG.	1. CAM-R	NONE AD+# 1:	787•2 1	(H+	SUN	47H=	91+4	
լ 2		•12N 21•11E	60 *** *** 191331	1 [1-19-66 PHASE:	LUNAR ORB LO.F=ROMM  75. EMIS.ANG.=		NONE AD.= (	48K 787•2	48000nn KM*	320 SUH	•6 *7M=	, 15 91+4	-,86
( 2	3 55 4: Can-Had-= (	•u94 21•23£		3 11-19-66 PHASE	LUNAR ORB HI. 610MH # 75. EMIS-ANG.=	1. CAH+R		787.2	K H •	SUN	<sub>A</sub> ZH#	91.4	
ι 2	2 55 4 CAM-HAD+*	4 105 11.355	60 =4° +4** 19133. 5ming= 138* Part of Lac 60 J	PHASE	LUNAR ORB LO-F=80HH = 75. EMIS-ANG.= BINE-JANSEN	1. CAM+R	NONE AD++ 1	787•2	K M •	SUN	AZH	91.4	
ι 2	I 56 4 Camenade	1+07H 21+36E	An aat 5, 50 19133	15 11-19-66 PHASE	LUNAR ORB HI. GIOHM .m. 75. EHIS.ANG	O. CAM.R	NONE AD•= 1	786+2	KH+	SUN	A ZH=	91.4	
i, 2	2 56 4 Caminau.=	1+67N 21+37E	40 19113	5 11-19-66 PHASE	LUNAR ORB LO.F=80MF = 75. EHIS.ANG.=	D. CAM.R	NOHE RAD•# I	786.2	КН∈	SUN	AZHW	91.4	
	CAM+NAD+=	1+04H 21+49E 4+63N 21+49E SUUTHERN	60 *** *** 19133 SWING= 156* I PART UF LAC 60 J	37 11-19-66 PHASE J.CAESAR,SA	S LUNAR URB H1. 61DH .= 75. EMIS.ANG.= BINE.AHSEH	O. CAM-F		786•2	KH•	ŞUN	AZH=	91.4	
L 2	2 57 4 CAM-MAD-=	ALLEN SILENE	60 *** *** 191:3 E SWING= 161* V PART OF LAC 60 J	PHADE	5 LUNAR DRB LO+F≈HOMI E≈ 75+ EMIS+ANG+= ABINE+JANSEN	О• С¥Н•8 Н неµ =	NONE RAD•= 1	47K   786+2	587500 KH•	359 5UN	# 47 M#	4 15 91•4	-,8

S. M. PART OF LAC 60 J. CAESAR. SABINE . JAHSEN

2104	ROLL OR LATE	Ħ	IIMES-HR I	M SEC		CAMERA-LENS OR Sensor Type	FILH-E)	CPOSURE AND FILTER	TUDE		A Z	L T SUN S ANG. ANG. FR. VERT	FAD. Lap
L 2	CAM-Nober Satily	21.62E 60 21.62E OUTHERN PAR	Saltice L	83.	PHASE=	LUNAR ORA HI, 610MM 75. EMIS.ANG.= O INE.JANSEN	86W	- NONE	47 <sub>K</sub> 1786+2	77649 KM+	14 SUN	+3 15 A7M# 91+4	-, 1
L 2	CAM-NAD-= 4-01N	21.63E 60 21.63E OUTHERM PAR	SAING= I	87.	PHASE=	LUNAR ORB LO°F±40MH 75. EHIS.ANG.* 0 INE.JANSEN	86#	- NONE	47K 1786•2	5875AB KH+	SUN 18	.4 15 A7He 91.4	- + B 7
L 2	1 59 4.9uN Cam-Had-# 4.89N	15.26F	Sw1#G=	97.	PHASE=	LUNAR ORB HI, 610HH : 78. EM15•ANG•# I !NE.JANSEN	A&#  •</td><td>- NONE</td><td>51K 1790+2</td><td>836<u>0</u>7 KH+</td><td>287 SUN</td><td>1.5 11 AZM= 91.2</td><td> 0 :</td></tr><tr><td>l. 2</td><td>2 59 4.90N CAM-RAD-# 4.88N</td><td>15•27E</td><td>SHING# 1</td><td>JI.</td><td>PHASE=</td><td>LUNAR ORB LO.F=80MM 78. EHIS.ANG.= 1 INE.JANSEN</td><td>86W</td><td>* NONE</td><td>5 į K 1790+2</td><td>6375NR KH+</td><td>292 SUN</td><td>[+4 [] AzMm 91+2</td><td>- · • ¢</td></tr><tr><td>ί 2</td><td>1 60 4.87N CAM-HAD-= 4.86N</td><td>15.406</td><td>ShiNG=</td><td>97.</td><td>PHASE =</td><td>LUHAR ORB HI, 610MM 78. EM15+ANG.= 1 INE,JANSEN</td><td>RGW t.</td><td>= NnnE Cam+Rad+=</td><td>51K 1790•2</td><td>83A07 KM+</td><td>288 200</td><td>1+3 11 AZM# 91+2</td><td>-, 9</td></tr><tr><td>i, 2</td><td>2 60 4.87te CAM-NAD-= 4.86N</td><td>15.405</td><td>Swlug= 1</td><td>03.</td><td>PHASE =</td><td>EUNAR ORB LO.F=80MM 78. EMIS.ANG.= ! INE.JANSEN</td><td>86#  -</td><td>* NONE</td><td>51K 1790+2</td><td>637500 KM+</td><td>293 SU:</td><td>1+3 11 7M= 91+2</td><td>-,88</td></tr><tr><td>L 2</td><td>1 61 4.85N Caminad.= 4.83N</td><td>15.53E</td><td>SainGe</td><td>98.</td><td>PHASE:</td><td>LUNAR ORB HI, 610HM : 78. EMIS.ANG.= : INE.JANSEN</td><td>36W</td><td>- NONE</td><td>51K 1790+2</td><td>83607 KM•</td><td>289 511N</td><td>1.2 11 AZM# 91.2</td><td>10</td></tr><tr><td>ιż</td><td>2 68 4+85k CAM+HAD+* 4+83H</td><td>15+53F</td><td>SHING= 1</td><td>104.</td><td>PHA5E*</td><td>LUNAR ORB LU.F=80MM 78. EMIS+ANG.= SINE,JANSEN</td><td>96W</td><td>* NONE</td><td>5 K  790+2</td><td>6375ND KM•</td><td>295 5UN</td><td>1+2 11 AZM= 91+2</td><td>-,BA</td></tr><tr><td>ί2</td><td>i 62 4.82N Cam.nad.= 4.81N</td><td>15.66E</td><td>. Swillig =</td><td>99.</td><td>PHASE:</td><td>LUNAR ORB HI. AIOHM - 78. EHIS.ANG.= 3INE,JANSEN</td><td>86# 1.</td><td>+ NONE</td><td></td><td></td><td></td><td>1+E 11 azma 91+3</td><td></td></tr><tr><td>ί2</td><td>2 62 4e82N Camehade# 4e81N</td><td>15.66E</td><td>5#[NG=</td><td>106.</td><td>PHASE</td><td>LUNAR ORB LO.F=BOHM = 78. EMIS.ANG.= BINE.JANSEN</td><td>86H</td><td>CWH*HWD*#</td><td>51K 1790•2</td><td>437500 KH+</td><td>297 SUN</td><td>1+0 11 AZH# 91+3</td><td>88</td></tr><tr><td>L 2</td><td>i 63 4+77N Can•Had•≠ 4.78N</td><td>15.78E</td><td>SWINGE</td><td>101.</td><td>PHASE</td><td>LUNAR ORB HI. 610MM - 78. EMIS.ANG.= NASHALL</td><td>86# 1.</td><td>- MONE</td><td>5gK 1789•2</td><td>81967 KH.</td><td>291 SUN</td><td>•9 11 AZH# 91.3</td><td>10</td></tr><tr><td>ι 2</td><td>CAN-NAD .= 4-78N</td><td>15.798</td><td>24146=</td><td>108.</td><td>PHASE</td><td>LUNAR ORB LO.F=BOMM = 78. EMIS.ANG.= BIDF.JANSEN</td><td>₽<i>6</i>#  -</td><td>CAM+RAD+#</td><td>50K 1789•2</td><td>625000 KH+</td><td>299 SUN</td><td>.9 11 AZH= 91-3</td><td>RB</td></tr></tbody></table>						

S. E. PART OF LAC 60 J.CAESAR, SABINE, JAHSEN

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR HIS HAG FR. PHOTO PRIN. PT. ORB GET GHT H-DA-YR AND FILTER TUDE PRING AZ ANG ANG FRO SION ROLL OR LAT. N TIMES-HR H SEC SENSUR FR. t A P HEN.HI PT. TYPE MAIN LUNG. (TOESTIMATED) VERT K . K K=KH. - None bus 81967 293 .8 11 -10 E 2 1 64 4.77N 15.89E 61 \*\*\* \*\*\*\* 224110 11-19-66 LUNAR ORB H1. 610MM B6W CAM+RED . # 1789+2 KH+ SUN AZH# 91+3 CAMANADOR 4.76N 15.91E SHIRGR 102. PHASER 78. EHIS.ANG.R I. S. W. PART OF LAC 60 J.CAESAR, SAUTNE, JANSEN - NONE 50K 625000 302 +8 11 -+88 L 2 2 64 4.77N 15.90E 61 ... ... 224110 11-19-66 LUNAR ORB LO.F.BONM B6H SUN A7M= 91+3 CAM-NAD-= 4.76N 15.92E SWING= 111. PHASE= 78. EMIS-ANG.= 1. CAN.RAD.m 1789.2 KM. 5. W. PART OF LAC 60 J.CAESAR. SABINE, JANSEN •7 il -• 9 81967 296 1 2 4 65 4-74H 16-03E 61 ... 040 24112 11-19-66 LUNAR ORB HI. 61DMM 86W NONE 50K SUN AZM# 91+3 PHASE 78. EMIS.ANG. . 1. CAN-NAD .= 4.73H 16.04E SWING= 105. S. W. PART OF LAC 60 J.CAESAR, SABINE, JANSEN - NONE 50K 625000 306 +7 11 -.88 L 2 2 65 4.74N 16.04E 61 ... 224112 11-19-66 LUNAR ORB LO.F=80MH R68 CAM+RAD. # 1789.2 KHa SUN A7M= 91+3 CAH-NAD-= 4.73N 16.05E SWING= 115. PHASE= 78. EHIS-ANG.= 1. S. A. PART OF LAC 60 J.CAESAR, SABINE JANSEN - NONE 50K 81967 299 +5 12 -- 10 L 2 1 66 4.72N 16.16E 61 \*\*\* \*\*\* 224114 11-19-66 LUNAR ORB HI. 610HM B6# CAM+RAD+# 1789+2 KM+ SUN AZM# 91+3 CAM-HAD. - 4.71N 16-17E SWING 108. PHASE 78. EMIS.ANG. 1. S. N. PART OF LAC 60 J.CAESAR, SABINE, JANSEN - NONE 50K 425000 312 +6 12 -- 88 L Z 2 66 4.72N 16.17E 61 ++\* ... 224114 14-19-66 LUNAR ORB LO.F=80MM B6W CAM.PAD.m 1789.2 KM. SUN A7M# 91+3 CAM-NAD-= 4-71N 16-18E SWING= 121+ PHASE= 78. EMIS-ANG-= 1-S. W. PART OF LAC 60 J.CAESAR.SABINE.JARSEN - NONE 46K 75410 16 3.4 22 -. \*\* 1 2 1 67 2-75N 24-38E 62 ++\* ++\*\* 021236 11-20-66 LUNAR ORB HI. 610HM 86W 5UN AZH= 91.4 CAM-RAD-= 1785-2 KH+ SWING= 185. PHASE= 69. EHIS.ANG.= 3. LAM-HAD-= 2-66N 24-35E S. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN - NONE 46K 575000 17 3+5 22 L 2 2 67 2-75N 24-39E 62 -- - - - 021236 11-20-66 LUHAR ORB LO.F=80MM B6W SUN A7H= 91+4 CAM. HAU. # 2.66N 24.36E SWING# 185. PHASE# 69. EHIS.ANG. # 4. CAM+RAD+= | 1785+2 KM+ S. E. PART OF LAC 60 J.CAESAR. SABINE. JANSEN - NONE 46K 75410 18 3+4 22 -+ 8 L 2 1 68 2.72N 24.50E 62 ... ... 021238 11-20-66 LUNAR ORB HI. 610MM 86# SUN AZM# 91.4 CAM-NAD .= 2.54H 24.47E SWINGE 187. PHASE # 69. EMIS.ANG. # 3. CAM . RAD . w 1785 . 2 KM . S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN - NONE 46K 575000 19 3+5 22 ++87 £ 2 2 68 4.72N 24.51E 62 \*\*\* \*\*\* 021238 11-20-66 LUNAR ORB LO.F.#ADMH 86W SUN AZME 91.4 CAM-HAD. 2.638 24.486 SWING. 187. PHASES 69. EMIS-ANG. 4. CAH+RAD+# 1785+2 KH+ S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN 4AK 75410 20 3+4 22 L 2 1 69 4.70N 24.62E 62 ... ... 021240 11-20-66 LUNAR ORB HI. 610MM 86# NONE SUN AZM# 91.4 (AM+RAD+# 1785+2 KH+ CAM-MAD. 2-610 24-59E SWING 189. PHASE 69. EMIS-ANG. 3. S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN - NONE 46K 575000 71 3+6 22 -+ 87 L 2 2 69 2.70H 24.63E 62 ... ... D2124U 11-20-66 LUHAR ORB LO.F.BOMM 96W CAM+RAD+# 1785+2 KM+ SUN A7M# 91+4 CAH-NAD- 2.61N 24.60E Shing 189. PHASE 69. EMIS-ANG. 4.

ALTI SCALE AT TILT SUN SIDE.

AND FILTER TUDE PRIN. AZ ANG. ANG. END.

HIS MAG FR.PHUID PHIN.PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-FXPOSURF

SION RULE OR LAT. N TIMES-HR M SEC

nain LUNG. (:=ESTIMATED) TYPE MEN.HI PT. FR. LAP VERT K=KH. L 2 1 70 2.67N 24.75E 52 \*\*\* \*\*\*\* 02124% 11-20-66 LUNAR ORB H1, 610MM B6W - NONE 46K 75410 22 3+5 22 -- A CANONADO = 2.59N 24.71E SWING 191. PHASE # 69. EMIS.ANG. # 4. CAM-RAD-# 1785-2 KH+ SUN A7M= 91-4 S. E. PART OF LAC 40 J.CAESAR. SAHINE JANSEN 1 2 2 70 2.67N 24.75F 62 \*\*\* \*\*\* 021242 11-20-66 (UNAR ORB 10-F-80MH RAW - NONE 96K 575000 23 3+6 22 -+97 CAMUNADO = 2.59N 24.72E SWINGS 191. PHASES 69. FMIS.ANG. = 4. CAM+RAD+# 1785+2 KH+ SUN AZM= 91+4 S. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN £ 2 1 7; 2.65m 24.87E 62 000 000 021294 11-20-66 LUNAR ORB HI, 610HM 86W - NONE 46X 75410 25 3.5 22 -. B CAMANADA 2.56N 24.83E SWING# 193. PHASE# 69. EMIS-ANG.# 4. CAM-RAD . 1785 - 2 KM - SUN AZN# 91 - 4 S. E. PART OF LAC SO J. CAESAR. SABINE JANSEN - NONE 46K 575000 24 3.6 22 -.87 CAH-HAD-# 2-56N 24-84E SWING# 193. PHASE# 67. EMIS-ANG.# 4. CAMeRADem 1785-2 KMe SUN AZH# 91-4 S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN £ 2 1 72 2.62h 24.79f 62 \*\*\* \*\*\*\* 021245 11-20-66 LUNAR URB BI. ALOMM BAW \* NONE 46k 7541B 26 3+1 22 CAM-NAD-= 2-54N 24-95F Swing= 195, PHASE= 69, EMIS-ANG.= 4. CAM+RAD+# 1785+2 KM+ SUN AZH# 91+4 S. E. PART OF LAC 60 J.CAESAR.SABINE.JAMSEN € 2 72 2.62N 25.00€ 62 \*\*\* \*\*\* 021246 11-20-66 EUNAR ORB £0.F=80MM R6W - NONE 46K 575900 26 3+6 22 -- 87 CAN-NAD == 2.54N 24.96E Shing= 195. PHASE= 69. EMIS.ANG.= 4. CAM-RAD-# 1385-2 KM. SUN A7M# 91-4 S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN L 2 1 73 2.65H 25.11E 62 ... ... Q21247 11-20-66 LUNAR ORB HI, 610HM B6W - NONE 46K 75410 28 3.6 22 -, 8 CAMONADO = 2.51N 25.07E 5x1NG= 197. PHASE: 69. EMISOANG. # 4. CAM - RAD - 1785 + 2 KM - SUN A7N = 91 + 4 S. E. PART OF LAC 60 J.CAESAR.SABINE.JANSEN L 2 2 73 2.60N 25-12E 62 \*\*\* \*\*\* 021248 11-20-66 LUNAR ORB LO.F. 80HH B6H - NONE 46K 575000 28 3.7 22 -.87 CAM-NAD-= 2-51N 25-08E SAING= 197- PHASE= 69. EMIS-ANG-= 4-CAM+RAD+= 1785+2 KM+ SUN AZM= 91+4 S. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN L 2 | 14 | 2.57N | 25.24E | 62 \*\*\* \*\*\*\* D21249 | 11-20-66 LUNAR ORB H1. GIOMM H6W - NONE 46K 75410 30 3+6 23 -- 8 CAM - NAD - = 4 - 471 25 - 178 SWING = 178 PHASE = 49 EMIS - ANG - 4 -CAH+RAD+ 1785+2 KH+ SUN AZH# 91+4 S. E. PART OF LAC 60 JOCAESAR SABINE JANSEN L 2 4 74 2.57R 25.25E 62 \*\*\* \*\*\* D21250 11-20-66 LUNAR URB LO.F=80MM B&W - NONE 46K 575000 30 3+7 23 -,87 CAM+RAD+# 1785+2 KM+ SUN AZM= 91+4 S. E. PART OF LAC 69 J.CAESAR.SABINE.JAHSEN L 2 1 76 1-170 23-748 66 \*\*\* \*\*\* 160847 11-20-65 LUNAR ORB HI. ATOMM BOW - NONE 49K 80328 104 .9 28 -.\*\* CAR. HAD. # 1.230 23.71E SylnGa 272. PHASE 63. EMIS. ANG. # 1. CAM.RAD. = 1788.2 KM. SUN AZM = 91.0 S. E. PART OF LAC 60 J.CAESAR. SABINE JANSEN L Z Z 76 1.20N 23.75E 66 \*\*\* \*\*\*\* 160848 11-20-66 LUNAR ORB LO,F#80MN R6W → NONE 49K 612500 97 +9 28 -.\*\* CAM-HAD.\* 1-200 23-726 SWING\* 265- PHASE 63. ENIS-ANG.\* 1. CAM-RAD.@ 1788-2 KM. SUN AZM# 91-0 S. E. PART OF LAC 60 J.CAESAR.S.GINE.JANSEN

SENSOR

LAP

8. 8

FR.

VERT

AND FILTER TUDE PRING AZ ANG. ANG. FWD.

HEN.HI PT.

- NONE 49K 80328 104 1+0 28

CAM+RAD+# 1789+2 KM+ SUN A7M# 90+9

CAM+RAD+# 1788+2 KM+ SUN A7M# 91+0

K=KH.

STON ROLL OR LAT. # TIMES-HR M SEC

LONG. (ImESTIMATED)

L 2 1 77 1-17N 43-87E 66 000 0000 160649 11-20-66 LUHAR ORB HI. 610MM 86W

CAM-NAD-# 1-17N 23-84E SWING# 272- PHASE# 63. ENIS-ANG-# 1-

CAN-NAD . 1 - 14 - 49E Swing = 267 - PHASE = 63 - EMIS - ANG . = 2 -5. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN

n n HAIN

MIS MAG FR. PHUTO PRIN. PT. URB. GET. GMT. M. DA-YH. CAHERA-LENS OR. FILM-EXPOSURE. ALTI SCALE AT TIL T. SUN SIDE.

SERSOR

TYPE

21M 4 #	MAG FR.PHDIO PF HOLL OR LAT. H MAIN H	RIN.PT. ORB GLT  TIMES-HE LONG. ::=c>TIP	GMI M=DA=YR K M SEC HATED)	CAMERA-LENS OR FILM-E SENSUR TYPE		ALTI SCALE AT TUDE PRIN. Men.MI PT. Kekh.	AZ ANG. ANG.	EWD.
L Z	I 83 i.uun Camanado= i.uin	24.61E SWINGE 5. E. PART OF LAG	271. PHASE	LUNAR ORB HI, AIOMM B&W 63. EMIS.ANG.= 2. INE.JANSEN	- None Camerades	50K 81967 1789+2 KH+	103 1+8 29 SUN A7M# 90+9	-, 6
L 2	2 83 1.0UN CAM-NAU.= 1.01N	24.68E 66 SWING= 5. E. PART OF LAG	267. PHASE	LUNAR ORB LO*F±80MM 35W - 63* EHI5*ANG** 2: INE*JANSEN		50K 62500U 1789+2 KM+		87
			263. PHASE	LUNAR ORB HI. 610MM B&W : 61. EMIS-ANG.= 1. MB-CARL		51K 83607 1790+2 KM+		
( 2			258. PHASE	61. EMIS.ANG. = 1.		51K 637500 1790+2 KM+		
ι 2			264. PHASE =	LUNAR ORH HI. 610MM B&W 61. EMIS-ANG.= 1. INE.JANSEN		51K 83607 1790+2 KH+		
ι 2	2 85 G+79N CAH+NAD+= +79N	23.76E 67 + 23.72E SWING= 5. E. PART OF LAG	259. PHASE=	LUMAR ORB LO.F.=80MM B&W 61. EMIS-ANG.= 1. INE-JANSEN	****	51K 637500 1790+2 kM+	•	-,87
£ 2	1 86 0.76N CAM=NAD== =77N	23.89E 67 Swings 23.85E Swings 5. E. PART OF LAG	265. PHASE	LUNAR ORB HI. 610MM RGW 61. EHIS.ANG.= 1. INE.JANSEN	- NONE	52K 85246 1791+2 KM+	96 1+3 30 SUN AZM# 90+8	9
ι 2	2 86 U•7611 CaH•NaU•≖ •77N	23.90E 67 4.0. 23.85E SAING= 5. E. PARI OF LA	260. PHASE	LUNAR ORB LO.F=80MM R&W ' 61. EMIS-ANG.* 1. INE.JANSEN	- NONE	52K 650nn0 1791•2 KH•	92 1.4 30 SUN A7H= 90.8	<b></b> , 87
ι 2			265. PHASE=	LUNAR ORB 41. 618MM R6W 61. EMISEANG. 1. INE.JAHSEN		52K 85246 1791+2 KH+		~, 9
ιZ	2 87 ∪=74N Cam=nad== •74N	24.03E 67 Swing= 23.99E Swing= 5. E. PART OF LA	261. PHASE=	LUNAR ORB LO.F=80MM B&M 61. EMIS.ANG.= 2. UNF.JANSEN		52k 650000 1791•2 kH•		
ί2			265. PHASE=	LUNAR ORB HI. 610MM B6n : 61. EMIS.ANG.≠ 2. INE.JANSEN	- NONE	52K 85246 1791.2 KM.		<b>~.</b> A
£ 2	CANARADA= .71N	24+12E S#1H6=	262. PHASE	LUNAR ORB LO.F=80HM R&W - 61. EHIS-ANG.= 2. & N.E. PART	CAM . RAU . m	1791 • 2 KH •	SUN AZM# 90.8	

CAM-NAD-# -49H 27-31E Sulhbe 181. PHASE= 72. EMIS-ANG.= 4.

S. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN

5UN A7M= 91+8

CAM+RAD+# 1791+2 KM+

									ERA+LENS OR Sensor Type		EXPOSURE AND FILTER	TUDE	.И1ЯЧ .ТЧ I	A Z	L T SUN ANG. ANG. FR. VERT	FWO.
ί2	i 89 Camenade=	• 680 មាន	24.258	5	#1NG=	266.	11-20-66 PHASE (AESAR,SA	- 61.	EMIS . ANG	)HH 86# - 2.	= NON CAB•RAD•=	52K 1791•2	45246 KM•	98 St:N	1+8 30 AZM= 90+8	-, A
į 2	CAM-NAD-*	* 68N	24.26E	5	# ING=	262.	PHASE	- 61.	EMIS . ANG .	· 2.	T NON CAMERADE T OF LAC 78	1791-2	KH+	SUN	1+8 30 A7H= 90+8	-,87
į 2	1 90 Cam-nad-=	•65N	24.39E	S	₩1NG#	266.	11+20-66 Phase Caesan,sa	<b>=</b> 61.	EMIS ANG .	944 B&\   2.	= NON: CAM+RAD+≃	52K 1791•2	85246 KM+	98 5UN	1+9 31 A7M# 90+8	7
į ž	2 90 CAM+NAD+# 5+	0.65N .65N L. PART	24.45E 24.39E Uf Lac	67 *** S	++++ W NG= Caesah	193805 263. .Sabin	11-20-56 Phase L,Jansen	LUNAR ■ 61+	ORB LO.F.88 EHIS.ANG.	IMM 86W : 2. I. E. Par	= NON CAM+RAD++ T OF LAC 7R	E 52K 1791+2 Theophi	650000 KM+ LUS,KANT	95 SUN	1.9 31 AzH# 90.8	-,87
( 2			24.52E	S	#ING=	266.		m 61.	EHIS . ANG .		= NON _AM+RAD+=					
L 2	LAH.NAD.=	.62N	24.53E	S	wING=	263.	PHASE	<b>*</b> 61.	EMIS.ANG.	2.	T NON CAH•RAD•= T OF LAC 79	1792+2	ĸM•	SUN		
ί 2	1 94 Call-Had-#	0.58N 000+	12.77E	S	#146=	276.	11-21-66 Phase Caesar,sa	e 62.	EMIS-ANG.	948 MME • 1•	- NON	E 59K 1788∙2	80378 KM•	1 m8	1+4 30 AZH# 90+7	-,**
L A	2 94 €AI1.HAD.*	#8ۥU N9ۥU	12.78E	5	WINGa	272.	11-21-66 Phase Caesar,sa	= 62.	EHIS+ANG.	3HM 86# • 1•	- NON CAM+R4D+=	E 49K 1788•2	612500 KM•	1 r 4 5 u N	1+4 30 AzM= 90+7	-,••
ز خ	I 4d Cam•HaD•≖	4 - 1211	19.77E	S	#IHG#	7.	2-16-67 PHASE CAESAR,SA	= 74.	EMIS.ANG.	)MH 86₩ = 18•	- NON Cam-rad-#	E 60K 1799+2	98361 (+	206 5UN	17+1 9 AZM# 92+1	-,••
ز غ		3.67N	20.96E	S	#1N6=	3•		- 74.	EMIS.ANG.		+ NON CAM+RAD+≃					
L J	1 44 CAH-HAD-=	⊌+69H +59N	27.08E	S	W   NG=	177.	2-16-67 Phase Caesar,5a	= 72.	EMI5.ANG.	]MM 860 = 4•	- NON CAM+RAD-=	57k 1791•2	85246 KM•	18 SUN	3+7 19 AZN= 91+8	-,••
	4 46										- NON				3+7 19	

S. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN

#	I A!! II	H	EUNG.	(F#ESTIMATED)		TYPE		R TUDE PHIN. HWN.HI PT. KMKM.	AZ ANG. ANG. FR. VERT	F₩D. Lap %. %
( 3	1 47 CAH.NAD.=	6 = 5 4N 4 4 N	27.48E 51 27.44E 5. E. PARI	10222 *** *** 5 106 LAC 60 U	5 2-16-67 LU: PHASE= : CAESAH, SABINE	ZAR ORB HI: 610MM 72. EHIS.ANG.≖ E.JANSEN	HEN - NO.	4E 57K 85246 1791+2 KM+	24 3+7 19 SUN AZH= 91+8	••10
. 3	1 48 Can-Nad+=	U•49H #39H		*** **** 10222 Swing= 185* Fuf Lac 60 J			. B&W - ND: 4. CAM+RAD=	UE 52K 85246 1791•2 KM•	26 3.7 19 SUN AZM# 91.7	-+1n
į j	1 52 CAM+HAD+=	6964 1168 •		*** *** 13503 5wing= 1. OF LAC 60 1			B&W - NO: 4. CAM-RAD-=	NE 51K 83607 1790+2 KM+	201 :4.1 18 SUN AZH= 91.7	-, • •
ι 3	1 54 CAM.NAD.*	4-36H 4-76H		*** **** 13504 Swing= 0. Of Lac 60 J			R&W = NO	IE 51 <sup>K</sup> 83607 1790+2 km+	200 14+1 18 SUN AZM# 91+7	-, 7
ι 3	2 58 CAM+HAD+* 5•	u = 16N	25-02E 52 25-16E UF LAC 60	*** **** 13505 SWING= 358. J+CAESAR,SABI	1 2-16-67 LUN PHASE= 6 NE.JANSEN	AR ORB LOSF #86MM 8. EMIS+ANG. # 1 6 N.	B&# - NON 4. CAH+RAD+# E. PART OF LAC 7:</td><td>JE 51K 637500 1790•2 km• 1 THFOPHILUS,KANT</td><td>198 14.0 18 SUN AZME 91.6</td><td><b>-</b> , R 7</td></tr><tr><td>į 3</td><td>1 60</td><td>0.514</td><td>24+21E 53 24+10E</td><td>44* *** 17:91</td><td>9 2-16-67 LUN PHASE - 7</td><td>AR ORE HI. 610HM</td><td>BEH - NOT L CAH-RAD-=</td><td></td><td></td><td>-,••</td></tr><tr><td>ι 3</td><td>∠ 60 CAMeNADe≡ Se</td><td>U.SIN • ZUR Ł. Part</td><td>24.22E 53 24.11E UF LAC 6U</td><td>SWING# 171930 U+CAELAR, SABIO</td><td>B 2=16=67 LUN PHASE= 7 Ne.Jansen</td><td>AR ORB LO.F. 80MH 4. EMIS.ANG. # 1. 6. N. E</td><td>BSR - NOR I. CAM-RAD-m E. PART OF LAC 78</td><td>E 50K 625000 1789•2 KH• THEOPHILUS•KANT</td><td>19   11.1   19 SUN AZM# 91.8</td><td>-,••</td></tr><tr><td></td><td></td><td></td><td>5. E. PART</td><td>OF LAC 60 J</td><td>CAESAR, SABINE</td><td>JANSEN</td><td>B&W - NON I. CAM-RAD-=</td><td>1789•2 KH•</td><td>SUN AZM= 91.7</td><td></td></tr><tr><td></td><td>5.</td><td>E. PART</td><td>OF LAC 60</td><td>J.CAESAR, SABIL</td><td>IE . JANSEN</td><td>6 N. E</td><td>BGN - NON I. CAM-RAD. = I. PART OF LAC 78</td><td>1789+2 KM+ THEOPHILUS,KANT</td><td>SUN AZM# 91+7</td><td></td></tr><tr><td></td><td></td><td></td><td>S+ E+ PART</td><td>OF LAC 60 J.</td><td>LAESAH, SAUINE</td><td>.JANSEN</td><td>BoW = NON L- CAM+RAD+=</td><td>1784.5 KH.</td><td>5UN AZM# 91+7</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>BUW - NON  CAM-RAD. APART OF LAC 7A</td><td>INFORMITO2*KYKI</td><td></td><td></td></tr><tr><td>ί 3</td><td>1 670</td><td>U+15# .</td><td>45 • 12E 53 •</td><td>*** **** 171953</td><td>2-16-67 LUN</td><td>AR URB HI: 610MM</td><td>HEN - NON</td><td>_</td><td></td><td><b>-,</b> 4</td></tr></tbody></table>			

HIS HA			B GET GHT TIMES-HR M SEC (I#ESTIMATED)	M-DA-YR	CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	ALT: SCALE AT TUDE PRIN, MmN.MI PT. KmKN.	- <del>-</del>	SUN SIDE. ANG. FWD. LAP R. 8
--------	--	--	--	---------	----------------------------------	-----------------------------	--	----------------	---------------------------------------

- L 3 1 68 U-3UN ZU-99E 54 -- -- -- ZU4751 Z-16-67 LUNAR URB HI- 610HM B&W -- NONE 50K 81967 ZB3 7-3 1R -- -- --Can-Nad-F -- 49N ZI-UBE 5WING# 3- PHASE# 70- EMIS-ANG-# 8- CAM-RAD-# 1789-2 KM- SUN AZM# 91-7 SUUTHERN PART OF LAC 6U J-CAE52R, SABINE, JANSEN
- L 3 2 6B D-JON 21-00E 54 000 0000 204/51 2-16-67 LUNAR ORB LO-FEROMM BEW NONE 50K 625000 204 7-2 18 -...

  CAM-HAD-= 49N 21-08E 5WING= 3. PHASE 69. EMIS-ANG.= 7. CAM-RAD-= 1789-2 KM. SUN AZM= 91-7
  SUUTHERN PART OF LAC 60 J-CAE5AR, SABINE JANSEN 6 NORTHERN PART OF LAC 78 THEOPHILUS, KANT
- L 3 1 59° JOLDN 21-49E 54 00° 000 204759 2°16-67 LUNAR ORB HI. 610MM 86W NONE 49K 80328 199 7-3 18 --.00 Cam-had-\* -36h 21-56E Swing\* 359. Phase\* 70. Emis-ang.\* 8. Cam-rad-\* 1788-2 km. Sun a7m\* 91-6 Suuthern part of lac 60 j.Caesar, sabine. Jansen
- L 3 1 7U U+1LS 22+UUE 54 ++\* ++\* +\*\* 204808 2-16-67 LUNAR ORB H1. 610MM B6W NONE 49K 80328 195 7.3 19 -,\*\*

  CAM-NAD-# .11N 22+U5E SWING# 354. PHASE# 70. EMIS+ANG.# 8. CAM+RAD-# 1788+2 KH. SUN A7M# 91.5

  NONTHEM PART OF LAC 78 THEUPHILUS,KANT 6 50UTHERN PART OF LAC AD J.CAESAR,SABINE,JANSER
- L 3 2 70 0-105 22-00E 54 0-0 0-0 204608 2-16-67 LUNAR ORB LO-F#80MM B6% NONE 49K 61250D 195 7-3 19 --52

  CAM-NAU-# .iun 22-06E 5410G= 355. PHASF# 69. EMIS-ANG.# 8. CAM-RAD.# 1788-2 KM. 50M AZM# 91-5

  HORTHLKN PART OF LAC 78 THEOPHILUS.KANT & SOUTHERN PART OF LAC AN J-CAESAR.SABINE.JANSEN
- L 3 2 73 7-59N 6-60E 56 \*\*\* \*\*\* 000 B34130 2-17-67 LUNAR ORB LO.F=BOMM B&N NONE 63K 787500 20 52-5 7 -.\*

  CAM-NAD-\* 4-99N 5-60E SWING= 177- PHASE= 101- EMIS-ANG-\* 55- CAM-RAD-\* 1807-2 KH+ SUN AZH= 92-4

  EASTERN PART OF LAC 59 H-VAPORUH-HYGINUS & WESTERN PART OF LAC AD J-CAESAR,5ABINE,JANSEN
- L 3 1 75 J.79N 6.77E 57 ... 4.40 D71056 2-17-67 LUNAR ORB 610HM B&W NONE 56K 91803 183 .3 9 ... 5 CAM-NAD. 3.60N 6.77E SWING 343. PHASE 81. EMIJ.ANG. D. CAM-RAD. 1795.2 KM. SUN AZM. 92.1 S. 4. PART OF LAC 6D J.CAESAR.SABINE.JANSEN
- L 4 i 78 13-30N 30-21E 15 \*\*\* \*\*\* 053813 5-16-67 LUNAR ORB HI + 610HM R6W NONE 2722K 4462295 248 1+0 24 -- 40

  CAN-HAD-= 13-86N 31-68E SHING= 63. PHASE= 64. EMIS-ANG-= 3. CAM-RAD-= 4461-2 KM- SUN AZM-95-4

  LAC 61 TAHUNI1US-LIELL : LAC 60 J-CAESAH, SABINE JANSEN : LAC 43 MACROBIUS-PROCLUS & LAC 42 M-SERENITY-D
- L 4 | 84 | 15+195 24+28E | 16 \*\*\* \*\*\* \*\*\* 170857 5=16-67 LUNAR ORB HI \* 610MM B&\* \* NONE 2727K 4470492 124 \*8 23 \*\*\*47 CAH+NAD\*\* 14+455 2J+18E SWING\* 310\* PHASE\* 68\* EMIS\*ANG\*\* Z\* CAM\*RAD\*\* 4466\*2 KM\* SUN AZM\* 82\*8 EASTERN PART OF LAC 78 THEOPHILUS; EASTERN PART OF LAC 96 ALTAI SCAR; LAC 60 J\*CAESAR\*SABINE\*JA & LAC 97 FRACASTORIUS;
- L 4 I 85 12+79H 23+94E 16 ++\* ++++ 173950 5+16+67 LUNAR ORB HI + 610HM H&W " NONE 2717K 445409B 230 +9 24 -+31

  CAM+NAD+\* 13+88N 25+84E SWING= 44+ PHASE= 65+ EMIS+ANG+= 2+ CAM+RAD+= 4456-2 KM+ SWIN AZM= 95+2

  EASTERN PART OF LAC 60 J+CAESAR+SABINE+JANSEM I EASTERN PART OF LAC 42 M-SEMENITY+DAMES I LAC 78 THEOPHILUS & LAC 43 MA

MIS MAG FRAPHUTU PRINAPTA DER GŁĪ GMI M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. # TIMES-HR M SEC SENSUR AND FILTER THDE PRIN. AT ANG. ANG. FAD. MAIN LUNG. (FmESTIMATED) TYPE M=N\_MI PT\_ FR. LAP K=KM. VERT 8. 8

the second secon

- L 4 1 89 15-095 16-9GE 17 0-9 0-00 051044 5-17-67 LUNAR ORB H1. 610MM 86W NONE 2724K 44- 574 154 05 22 -48

  CAM-MAD-W 14-455 16-59E SWINGW 34D. PHASEW 68. EMIS-ANG-W 10 CAM-WADOW 4463-2 K SUN AZMW 83-2

  MESTERN PART OF LAC 78 THEOPHILUS-KANT 1 CENTRAL PART OF LAC 96 ALTA1 SCAR 6 5. W. PART OF LAC 60 J=CAESAR, SAR
- L 4 1 90 13-75N 15-87E 17 \*\*\* \*\*\* 054135 5=17-67 LUNAR DRB H1- 610HH R6W = NONE 2711K 4444262 246 1+6 22 =-22 Can-Nad-= 13-89N 18-40E Swing= 82+ Phase= 64+ Emis-Ang-= 4+ Cam-Rad-= 4450+2 km+ Sun Azm= 95-0 Mesiehn Part of Lac 60 J-Caesak-Sabine-J i Jestern Part of Lac 42 M-Serenity-Dawes & N. W. Part of Lac 78 Theophilus-Kant

- L 4 2 112 42-575 1-35# 21 \*\*\* \*\*\* 044650 5=19-67 LUNAR ORB LU-F=80MM B<sup>6</sup>W \*\* NONE 2986K 37325000 95 4-6 20 -.\*\*

  CAN-HAD-\* 42-265 12-07# SWING\* 294\* PHASE\* 81\* EMIS-ANG\*\* 13\* CAM-RAD\*\* 4725-2 KM\* SUN AZM\*\* 69-2

  LAC 112 1YCHU-STOFLER : W>1/2 MOON SPHERE : LAC 144 SCOTT.S.POLF NEARSIDE >6 LAC 76 RIPHAEUS MT.
- L 4 2 127 41-21N 14-29W 23 \*\*\* \*\*\* 06261U 5-20-67 LUNAR ORB LO-F\*BOHM R6W NONE 2886K 36075000 114 2-2 27 --29

  CAM-NAD-\* 42-81H 18-79W SWING\*\* 278\* PHASE\*\* 74\* EM15-AFG\*\*\* 6\* CAM-RAD\*\*\* 4A25-2 KM\*\* SUN A7M\*\*\*109-6

  LAC 24 51NU5 1KID ; \$\infty\$1/2 NOUN SPHEKE ; LAC 76 KIPHAEUS M ; LAC I N\*POLE NEARSIDE BYRD\*\*PEARY >80 N & LAC 146 N\*POLE FARSI

- L 5 2 64+ 0•73N 25•05E 34 ••• •••• 093653 8=12-67 LUNAR ORB LO+F±BOMM BBN NONE 98K 1225000 269 51•3 16 -••• Cam•nad•= •78N 29•30E SÿInG± 176• Phase= 18• Emis•ang•=56• Cam•rad•= 1937•2 km• 50N aZh= 88•7 SUUInekn paki uf lac 60 J+lae5ak•Sabine•Jansen & nurthern part of lac 78 Theophilus•kant

MAIL									· - •	
CAN-MAD= 17-11 27-13E 50 18-190. PMSE 57. EMISSANG= 13. CAM-MAD= 15-19. PMSE 50. EMISSANG= 13. CAM-MAD= 110. PMSE 17. SUN 27-88-6. EMISSANG= 13. CAM-MAD= 10. PMSE 17. SUN 27-88-6. EMISSANG= 1. SUN 27-88-8.	•	# MAIN	FOME.	(F#EST[MATED)		TYPE	AND FILTER	TUDE PRIN. H=N.HI PT.	AZ ANG. ANG. FR.	FWD.
CAN-MAD-* - 101 24-022		3+ E+ PARI	UF LAC 42	H.SERENITY.DAME	S	6 N. E.	PART OF LAC AN	E 113K 14125nD 1852+2 km.	283 12+1 20 SUN AZM# 75+0	-,••
1		CAM-NAU-= -4UN	24+02E S. E. PARI	Swing= 174. OF LAC 60 J.C	8-12-67 LUNAR PHASE 66. AESAR, SABINE, JA	ORB <sup>HI</sup> • 610MM B& EHIS•ANG•= 4. RNSEN	W = NONE CAM+RAD+=	98K 168656 1837+2 KM+	268 3+4 20 SUN AZH= 88+6	
L 9 4 72		J. E. PARI	OF THE WA	J.CAESAR, SABINE	MANSEN	€ N. E.	PART OF LAC TO	THEORNE IN THE	517N AZM# 88+6	
L 5 1 73° U-93N 23-86E 37 00° 000° 191011 8-12-67 LUNAR URB HI. 610HH 86W CAM-RAD= 091 24-86E SKING= 182. PHASE= 66. EMIS-ANG.= 4. CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.9 CAM-RAD= 1837-2 KM. SUN AZH= 88.6 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.6 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.9 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.9 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 1837-2 KM. SUN AZH= 88.8 CAM-RAD= 18		'	23.84E 37 24.04E 5. E. PART	*** *** 191007 5wing= 178. of lac 60 J.C	8-12-67 LUNAR PHASE= 66. AESAR.SABINE.JA	ORB HI. 610MM RG Emis.ang.= 4. Insen	W = NONE CAM+RAD+=	98K 160656 1837+2 KM+	272 3+4 20 SUN AZN# 88+7	
CAM-HAD-= -91H 24-86E  37 *** *** *** 191011 B-12-67 LUNAR URB HI. AIDHH 86H	<b>.</b> .	2 72 u+67H Cam+Nab+= +66N 5+ E+ Paht	23+84E 37 4 24+04E UF LAC 60	SWING= 178. J.CAESAR,SABINE	8-12-67 LUNAR PHASE® 66. JANSEN	ORB LD.F.BAMM B&, EMIS.ANG.= 4. & N. E. F	M = NONE CAH+RAD.= PART OF LAC 7A	98K EZZSONO Ig37+2 km. Theophilus,kant	272 3+5 20 SUN AZM# R8+7	88
L 5 1 74* 1*2JN 23*88E 37 *** *** *** *** *** *** *** *** ***		TAM+HADo= .91H	23.86E 37 4 24.06E 5. E. PART	58186m 182. OF LAC 60 Jec	8-12-67 LUNAR 66. BHASE 66. AESAR, SABINE, JA	URU HI. GIDHM BEV EMIS-ANG.= 4. NSEN	N = NONE CAM+RAD+=	98K 150656 1837+2 xH+	276 3+4 20 SUN AZH# 88+A	
CAM-NAD-= 1-16H 24-UBE SHING= 186 PHASE= 66- EMIS-ANG.= 4- NONE 98K 160656 28D 3-4 2D 8  L 5 2 74 1-21N 23-UBE 37 *** *** *** *** *** *** *** *** ***		40 ( 40)	OF LAC 60	RACYEDAK " DYRINE	• JANSEN	& N. E. P	PART DE LAG TO	711700111111111111111111111111111111111	and Kina Sast	
5. E. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  LAM-NAD. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR. SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S. S. S. PART OF LAC 60 J.CAESAR, SABINE, JANSEN  L. S.		CAM-NAD-= 1-16H	24.08E 37 . 24.08E >. E. PAHI	SWING= 186 OF LAC 60 /	PHASE - 66. PHASE - 66. AL. SHIBAZ. RAZZI	ORB HI. 610HM B&N EHIS+ANG.≈ 4. NSEN	- NONE Cam•rad•=	98K 160656 1837+2 KM+	280 3.4 20 SUN AZM# 88.9	
So to PART OF LAC 6U JoCAESAR, SABINE JANSEN  L5 2 75 UPAUN 23-85E 38 *** *** 2221U9 8-12-67 LUNAN ORH LOOF #80HM BON *** NONE 98K 1225DOU 95 75-7 22 ****  LAM-WAD-# *** *** *** *** *** *** *** *** *** *			Do E. PARI	OF EAC 60 J.C.	AL, BRIGAR, RAPE	NSEN	Chickages	1837.5 KM.	SUN AZH# 88.9	
L 5   76 W-69N 23-88E 38 *** *** 22214 8-12-67 LUNAR URB HI. 610HM 86# - NONE 98K 160656 94 75-9 22 **********************************			S. E. PART	OF LAC 60 J.CA	ESAR, SABINE, JA	NSEN	CAM-KAD-#	1437+2 KH+	5UN AZM# 88.6	
CAM-NAD+* +82N 22-30E 541NG= 11- 04451- 01 1000 - NONE 98K 160656 94 75-9 22	ι 5	4 75 U-9UN Z Lam-Had-# -55N 5. E. Part	23.85E 38 * 22.28E Uf EAC 60	•• ••• 2221U9 Swing= 1, J•Caesar,Sabine,	8-12-67 LUNAR ( PHASE= 95. JANSEN	URH LOSF=BOMM BOW EHIS+ANG+# 27. U N. E. P.	= ₽NNE Cam•rad•= Art uf lac jr t	98K 122500U 1937•2 KH• HFOPHILUS.KANT	95 - 25+7 22 SIIN AZH# 88+6	-,**
	ι 5	CAM-NAD-* +82H	22+30E	** **** 222114 Swing= n=	8-12-67 LUNAR (	JRB HI. 610MM 96m				10

S. N. PART OF LAC 60 J.CAESAR.SABINE.JANSER

#	# MAIN	LONG.	(:#ESTINATED)		ITEL	AND FILTER	TUDE PRIN. M=N.M! PT. K*KM.	AZ ANG. AI FR. VERT	NG. FWD. Lap 8. 8
լ 5	Z /6 G=69N Cahanada= adzn S= E= Part	23+87E 38 22+30E UF LAC 6U	*** **** 222114 Swing* o. J*CAESAR,SABINE	8-12-67 LUNAR Phase= 95. Jansen	URB LO.F=80MM R&& EMIS.ANG.= 27. & N. E. FART	- NONE CAM-RAD-# OF LAC 78	98K 1225000 1837+2 KM+ Theophilus,kant	94 25+7 : SUN AZM# 8!	22AA 8.7
ξ 5	1 77 U.98N	23.70E 38 -	500 9000 222119	8-12-67 LUNAR PHASE# 96-	ORB H1. 610HM 864				22 9 9.8
ι 5	CALIENTOS TOTOM	24 - 3 JE	>#1NG= 360*	PHASE # 95.	ORB LO.F=80MM B&A EMI5+ANG.= 27+ & N+ E+ PART	C.M.D.D.	1037.7	C. 181 . 744 . C.	<sup>2</sup> 2 -188 8•8
ιb	1 78* 1.27N . CAM.NAU.= 1.39N	77.12E	5WING# 359. OF LAC 60 J.C	PHADER 96.	ORB HI. 610MM B&W Emis.ang.= 27. Insen	- NONE	98K 160656 1937•2 kH•	93 25+9 3 SUN AZM= 8	22 <b>-,</b> 7
ι 5			-6100- 331	FARSE 75.	DRB LO.F.ROMM B&A EMIS-ANG. = 27. & N. E. PART	FAM.DAD	4 A 3 7 . 4 P D D .	C1111 A-4- 00	22 -,87 9•n
ι 5	1 80+ 4+35N	17.97E 41 (	*** *** 075456	8=13=67 LUNAR PHASE= 84.	ORB HI. 610MM B6W	e bour	984 140454		21 -,•• 2•3
ι 5	2 80 2.36N CAM-MAD+# 2.45N	1/0185	•=• •••• 075456 Swing= 2. UF LAC 60 J=C	PHASE= 44.	ORB LO.F=80MM 86W EMIS.ANG.# 14. NSEN	- NONE	98K 1225005 1837+2 KH+	96 13-6 2 SUN AZM# 89	21 7.4
į b	1 81° 4.62N 1 Cam.Nad.= 2.78N		** *** 075500 Swing= 1. Of Lac 60 J.c	TORRE MY .	ORB HI. 610MM B&W EMIS.ANG.= I4. NSEN	- NONE	98K 160/56 1837•2 KM•	75 13+7 2 SUN AZM# 89	?! -, 9 ?+5
ι 5	CONTRACTO COVER	1/0/UE	** **** 075500 Swing= 1. OF LAC 60 J.C	PHASE AG.	ORB LO.F.BONM R&W EHIS.ANG.= 14. NSEN	- NONE	98K 12250AL 1837•2 KH•	95 13+6 7 SUN AZM# R	!1 <b></b> 88
լ 5			*** **** 0755:15 Swing= 359* OF LAC 60 J*C		ORB HI. SIOHM REN EMIS-ANG.# 14. NSEN	T NONE	98K 160656 1837•2 KM•	94 13+7 2 SUN AZM# 85	11 -, 9
ι 5	CUITAINED - 201014	111225	5wing= 359. Of EAC 60 J.C.	PHASE A4.	ORB LO.F=BOMM REW EMIS+ANG.= 14. NSEM	- NGHE CAM+RAD+#	98K 1225000 1837+2 KH+	94 13.6 2 SUN AZM# 89	:1 ~.88 !+6
ι 5			5%(146 # 358 * UF LAC 60 J-C	FERDLE MYS	URB HI. 610MM R&W EHIS.ANG.= 14. USEN	- NANE	98K 160656 1я37+2 кн+	93 13+7 2 SUN AZH= 89	1 -, 9

HIS DAG FRIPHUIU PHINIPT. URB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. STON RULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER THOE PRING AT ANG. ANG. FWD. (ImtSTIMATED) MAIH LONG. TYPE M=N.M1 PT. FR. LAP KaKM. VERT 8 . 9 L 5 2 83 3-180 18-33E 41 --- -- 075509 8-13-67 LUNAR ORB LO-F-80MM B6W - NONE 98% 1225000 93 13+6 21 -.88 CAM-NAD-= 3-22N 17-24E SWING= 358- PHASE= 84. EMIS-ANG.= 14. CAM-RAD-= 3A37+2 KM- SUN A7M= 89-7 S. W. PART OF LAC 60 J.CAESAH, SAHINE, JANSEN

TOTAL PHOTOS IN THIS GROUP # 190

MIS MAG FR. PHOTO PRIN. PT. DRB GET GMT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OH LATE # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. HAIN LUNG. (Imts[IHATED) TYPE MENAMI PT. FR. LAP K=KM. VERT 8. 8

- L 1 2 J1 2-54N 47-96E 39 \*\*\* \*\*\* 134659 8=20=66 LUMAR ORB LO\*F=80MM 86% " NONE 243K 30375NO 234 11-0 10 --\*\*

  LAM-HAD-= 3-44N 49-24E 5WING= 53\* PHASE= 70\* EMIS\*ANG\*= 13\* CAM\*RAD\*= 1982\*2 KM\* SUN AZH\* 88\*9

  SOUTHERN PART OF LAC 61 TARUNTIUS\*LYELL : HURTHERN PART OF LAC 79 COLOHBO\*NE & LAC 62 M\*\*UNDARH\*\*S\*CRISTUM
- L | 4 32° 2°15N 49°96E 39 \*\*\* \*\*\* 134733 8-20-66 LUNAR ORB LO-F#80MM 86W " NONE 238K 2975DOD 227 9°9 12 -:65 CAM-NAD-# 3-08N 50°96E SWING# 46° PHASE# 7D° EMIS-ANG-# 11° CAM-RAD-# 1977-2 KH° SUN AZH# 88°9 5° E° PART UF LAC 61 TARUNTIUS-LYELL ; LAC 62 M°UNDARUM, 5°CR15IUM & LAC 79 COLOMBO NE
- L I 2 41 3+3UN 39+16E 41 4±4 4+4 21UU37 8-20-66 LUNAR URH LO+F#80MM B6M NONE 256K 3200000 244 14+7 5 --+++ Cam+had+# 4+28N 41+17E 5W1NG# 63: PHASE# 7D: EMIS+ANG+# 17: CAM+RAD+# 1995+2 KM+ SUN AZM# 88+8 SOUTHERN PART UF LAC 61 TAHUNTIUS+LYELL 6 NURTHERN PART OF LAC 79 COLOMBO,NE+K+NECTAR

- L L 2 44 1-16N 46-12E 45 +++ +++ 128JG 8-21-6/ LUNAR ORB LO-FEBOMM P6H NONE 67K B375nd 187 /-2 19 --++ LAM-MAD-# 1-46N 46-16E SWINGE 65 PHASE\* 70. EMIS-ANG.\*\* 8. CAM-RAD-# 1806-2 KM. SUN A7H= 88+8 5- E. PART OF LAC 61 TAKUNTIUS-LYELL
- L I 2 46 3+19H 31+21E 47 ++\* ++\* ++\* 1823U3 8-21-66 LUNAR ORB LU+F=80HH R6W NONE 86K 10750ND 232 14+8 7 -+\*

  CAN+NAD+\* 3+65H 31+81E 5HING= 51+ PHASE= 70+ ENTS+ANG+= 15+ CAM+RAD+\* 1825+2 KM+ 5UN AZM= 88+9

  >+ A+ PART UF LAC 61 TARUNTIUS+LYELL 6 5+ E+ PART OF LAC AD J+CAESAR+SABINF+JANSEN

BELEGIETE BYCE IS DOOR OBTOM

SIUN	NAG FR.PHOIO PRIN.PT. URB HULL OR LAT. # # MAIN LUNG.	TIMES-HR M SEC	EHA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. H=N.HI PT. FR. LAP K=KH. VERT 8.8
į, l		••• •••• O12251 B=22-66 LUNAR SWING= 37• PHASE= 70• UF LAC 61 TARUNTIUS+LYELL	ORB LO.F=80MM B&W - NONE EMIS-ANG-= 10- CAM-RAD-=	72K 900000 218 9.4 14 + 1811-2 KH- SUN AZH# 89-0
L I	2 49 1-88N 34-71E 49 CAM-NAD-= 2-19N 34-92E S. W. PAR	••• •••• 01234 8-22-66 LUNAR SWING= 32• PHASE= 70• OF LAC 61 TARUNTIUS+LYLLL	ORB LO.F=80MM 86W - NONE EHIS•ANG.= 9• CAM•RAD·=	70K 875000 214 9.1 1451 1809-2 KH. SUN AZH= 88.9
į 1	2 50 0.615 42.348 51 CAM-HAD.* 4195 42.15E N. E. PART OF LAC 79	••• •••• 082413 8-22-66 LUNAR Swing= 332. Phase= 70• COLOMBO.NE.M.HECTAR	ORB LO.F=80MM B&W - NONE EHIS+ANG.=   3. CAM+RAD.= & S. E. PART OF LAC AL	60K 750000 155 13.2 26 1799.2 KH. 5UN AZH® 88.0 TARUNTIUS.LYELL
į į	CAM-HAD+# +725 40+86E	Swing= 122. PHASE= 62.	URB LU.F=80MM R&W - NONE EMIS•ANG•= 1. CAM•RAD•= & SOUTHERN PART OF LAC A1	59K 7375DO 314 1+0 28 +.** 1798+2 km+ SUN AZH# 87+9 [ARUNTIUS-LYFLL
į l	2 53 4+735 40+98E 53 CAM+HAD+= +755 41+80E HORTHERN PART UF LAC 79	SWINGE 127. PHASEE 62. COLUMBU.NE.M.NECTAR	ORB LO.F=AOMM B&W - NONE EMIS•ANG.= 1• CAM•RAD•# & SOUTHERN PART OF LAC A1	59K 737500 319 •9 28 02 1798•2 km• JUN AZM# 87•9 [ARUNTIUS.LYELL
ί )	CAM.NAU785 41.15E	5# ING = 133. PHASE = 62.	URB LO.F=80MM B&W - NONE EMIS-ANG.= 1. CAM-RAD.= & SOUTHERN PART OF LAC &I T	60K 750000 325 +8 2888 1799+2 km+ Sun Azm= 87+9 Aruntius,lyell
ιl	395-15 518+ **UAN+MAL	SWING= 142. PHASE = 62.	ORB LO.F. BOHM BOH - NONE EMIS.ANG. 1. CAM.RAD. = & SOUTHERN PART OF LAC 61	60K 750000 333 •7 28 =•88 1799•2 km• SUN AZM= 87•9 [ARUNT]US•LYELL
L I	2 56 0+825 41+43E 53 LAH.HAD.= +845 41+44E HUNTHERN PART OF EAC 79	••• •••• 152308 8-22-66 LUNAR 5w1ng= 152•	ORB LO.F. #80MM B&# - NONE EMIS.ANG. = 1. CAM.RAD. = & SOUTHERN PART OF LAC AL</td><td>60K 750PPD 344 +6 2A88 1799+2 KM+ SUN AZM= 87+9 TARUNTIUS:LYELL</td></tr><tr><td>į l</td><td>2 68 U+25N 34+45E 54 CAD+HAD+= +24N 34+49E 5+ #+ PART DF LAC 6</td><td>541NC# 96. PHA5E# 66.</td><td>ORB LO.F. BOHH BOW - NONE EHIS.ANG. I. CAM.RAD. E & N. W. PART OF LAC 79</td><td>59K 737500 289 1.4 23 1798-2 km. Sun Azm= 88.5 COLOMBO.NE.M.NECTAR</td></tr><tr><td>i, J</td><td>LAM-HAD= +21# 34+64E</td><td>Swings 97. PHASEs 66.</td><td>URB LU.F=80MM R&W - NONE EMIS+ANG.=  - CAM-RAD.= & N. W. PART OF LAC 79 (</td><td>59K 737500 289 1+3 2308 1798+2 KH+ SUN A7M= 88+5 COLOMBO:NE+M+NECTAR</td></tr><tr><td>į l</td><td>SBT+PE HHE: =+CAM+HA</td><td>Snings 98. PHASE= 66.</td><td>ORB LO.F=ROMN B&W - NONE EMIS-ANG.= L. CAM-RAD.= & N. M. PART OF LAC 79 (</td><td>59k 737500 290 1+2 23 =,88 1798+2 km+ 50N A7M= 88+4 COLOMBO,NE,M,NECTAR</td></tr><tr><td>L }</td><td>1</td><td>SAINGH 99. PHASE= 66.</td><td>ORH LO.F.BOHM R&W - NONE EMIS-ANG.= 1. CAM-RAD. & N. R. PART OF LAC 79 (</td><td>59K 737500 292 [+0 2488 1798+2 kH+ SUN A7H= 88+4 OLOMBO.NE+H+NECTAR</td></tr></tbody></table>	

н15 510N	MAG FREPHUTU PRIMEPTS ORB GET ROLL OR LATE B TIMES B MAIN LONGS (THES	GMT H-DA-YR CAN -HR H SEC Tinated)	ERA-LENS OR FILM-E) Sensor Type	XPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. H=N+MI PT. K=KM+	AZ ANG. ANG. FR.	FWD. LAP
ų i	2 72 U-13H 35-U4E 54 +- CAM-NAD-#	Ga 101• PHASE# 66•	EMIS.ANG	CAM . RAD . =	1797 • 2 KM •	DOM WINE RHAR	88
į i	2 /3° 0.09R 35.19E 54 00° 00 CAN.NAD.= .UBN 35.21E SWIN So no PART UP LAC 61 TARUN	G± 134» PH <sub>A</sub> SE= 66•	URB LO.F.BOMM 86W EMIS.ANG 1. 6 N. M. PART	CAM+RAD+=	1777+2 KH+	200 TYME OUT	-,AR
( I	2 74° 0°06N 35°34E 54 °°° °°  CANOMADO= 005N 35°35E 54IN  So no PART OF LAC 61 TARUN	** 185100 8-22-66 LUNAR G= 107* PHASE= 66* TIUS*LYELL	ORB LO.F. BOMM BOW EMIS-ANG. = 1. & N. W. PART	- NONE CAM-RAD.= OF LAC 79	58K 7250NO 1797+2 KM+ COLOHBO,NE+M+NEC	299 +6 24 SUN AZM≅ 88+4 TAR	48
( 1	2 75 0-03N 35-48E 54 000 00 CAH-NAD-# -02N 35-50E SWIN 5- 0- PART UF LAC 61 TARUN	** 185102 8*22-66 LUNAR G= 113+ PHASE= 66+	URB LU.F=88MM B&N EMIS.ANG.= 1.	- NONE	58K 725000	305 +4 24 SUN AZM# 88+4	-,AA
i I	2 76 0+005 35+63€ 54 +++ ++ CAN+0AD+= +UIS 35+64€ 5#IR N= H+ PART OF LAC 79 COLUM	** 185404 8=22=66 LUNAR G= 123. PHASE= 86.	ORB 10.F=ROHH 9&W	- NONE	58K 725000	315 +3 24 SUN AZH= 88+4	-,88
L I	2 77 U-HJS 35+78E 54 *** ** CAN-NAD** +U4S 35+78E SWIN H+ #+ PART UF LAC 74 COLUP	•• 1851U7 8-22-66 LUNAR	ORS LO.F#80MM B&W	- NONE	58K 72500U	338 •2 24	88
i i	2 78 0-075 35-938 54 *** ** CAM-NAU-= +075 35-938 Swin n- n- PART OF LAC 79 COLON	** 185109 8=22-66 LUNAH	OR* 10.F=80MN 56W	- NONE	58K 725000	21 +2 25 SUN AZM# 88+3	-,8A
<b>ί</b> 1	Z 79 U+1US 36+08E 54 *** ** CAH.NAD.* +1US 36+07E 5w18 N* ** PART OF LAC 79 COLOR	•• 185112 8-22-66 LUNAR Gm 225. PHASE= 66.	ORB LO.F#80MM 8&* EMIS.ANG.# 0.	- NONE	58K 725890 1797•2 KM•	57 •3 25 SUN AZM= AR•3	AA
į, į	2 80 U-135 36-23E 54 *** ** CAN-NAU-* -135 36-21E 5WIF	•• 185114 8-22-66 LUNAR	ORB LO.F.BOHH B&W EMIS.ANG.= U.	= NONE	58k 7250n0 1797+2 KM+	73 •4 25 SUN AZM# 88•3	<b>-</b> .88
L I	2 81 0-165 36-37E 54 ++* +c CAM-HAD+* -165 36-36E SWII N+ n+ PART UF LAC 79 COLUM	G= 249. PHASE= 66.	ENIS.ANG.= 1.	CAM+RAD+=	1797+2 KH+	AI +5 25 SUN AYH= 88+3	
ι ι	2 82, U+195 36+52E 54 *** ** CAM+NAD+* +195 36+50E 5011 N+ n+ PART UF LAC 79 COLUI	•• 185119 8-22-66 LUNAR 1G= 253. PHASF= 66.	UNA LO.F BAOMH RER Emis.ang.= 1.	- NONE	58K 725000	SUN AZNE BR.3	
L i	2 83 u+225 36+67E 54 *** *	** 185121 8+22+66 LUNAR	. ORB LO.F≖8OHH 86₩	→ NONE	58K 725000	A9 +8 25	

CAM-NAD. = .225 36.64E SHING= 256. PHASE= 66. EMIS.ANG. = 1. CAM-RAD. = 1797.2 KM. SUN AZME 88.2
No ha Part of lac 79 columbu.ne.manectar & 5. ha Part of lac at taruntius.lyell

S. W. PART OF LAC 61 TARUNTIUS . LYELL

MIS HAG FR.PHUTU PRINAPTA URB. GET. GMT. MADA-YR. CAMERA-LENS OR. FILM-EXPOSURE ALTI SCALF AT TILT SUN STOFA STON ROLL OR LATA # TIMES-HR M SEC SENSOR AND SILTER TUDE PRING AT ANG. ANG. END. TYPE cR. MENANI PT. a a MAIN LONG. CHESTIMATEDI VFRI K=KM. L 2 Z 5 4-25N 36-90E 52 4-4 4-4-4 152453 11-18-66 LUNAR ORB LO-F=80MM B&W -- NONE 52K 650000 292 1-2 16
CAM-NAD-\* 4-24N 36-03E SAING\* 101- PHASE\* 73. EM|5-ANG-\* 1- CAM-RAD-\* 1791-2 KM- SUN AZH# 91-5 - NONE 52k 650000 292 1:2 16 ---S. m. PART OF LAC 61 TARUNTIUS LYFLL - NONE 52k 85246 287 1-1 16 -- 14 1 2 1 60 4022N 30012E 52 000 0000 152455 11-18-66 LUNAR ORB HI. 610MM 36W CAM+RAD+= 1791+2 KM+ SUN AZM# 91.5 CAMANADA 4-21N 36-15F SWINGS 76. PHASES 73. EMIS-ANG. - I. S. A. PART OF LAC 61 TARUNTIUS . LYFLL - NOME 52K 85246 288 1+0 16 -413 1 2 1 7. 4.ZDN 36.25E 52 ... ... 152457 11-18-66 LUNAR ORR HI. 610MM RLW CAM+RAD+= 1791+2 kH+ SUN 47H# 91.5 CAM-NAD. 4-19N 36-28F 54[NG= 97- PHASE= 73- EHIS-ANG. = I. S. W. PART OF LAC &L TARUNTIUS . LYFLE - NONE 52K 650000 295 1.0 16 -.88 1 2 2 7 4.23N 36.26F 52 \*\*\* \*\*\* 152457 11-18-66 LUNAH ORB LO.F=80MM 86W CAMONADO 4018N 36029E SWING 1840 PHASE 73 EMISOANG 1. CAM-R/ # 1791-2 KH+ 5UN AzH# 91.5 S. W. PART OF LAC 61 TARUNTIUS .LYELL - NONE 52K 85246 289 .8 16 -.13 1 2 1 80 4.17N 36.3RE 52 000 0000 152459 11-18-66 LUNAR ORR HI. AIGHN RAW LANG. 4. 164 36.416 SWING. 98. PHASE 73. EMIS.ANG. 1. CAM-RAD. = 1791.2 KH. SUN A7H= 91.5 S. W. PART OF LAC 61 TARUNTIUS LYPLI. 85246 290 .7 16 -.14 - NONE 52K 1 2 1 90 4.14N 36.51F 52 000 0000 152501 11-18-66 LUNAR ORB H1, 610HM B6# CAM-RAD ... 1791-2 KH- SUN AZH- 91-5 LAM-NAM-= 9-14N 36-53F SWING= 99-PHASE 73. EMIS.ANG. 1. S. W. PART OF LAC 61 TARUNTIUS LYELL 1 2 2 9 4-14N 36-52E 52 \*\*\* \*\*\* 1525tl \$1-18-66 LUNAR DRB LO.F=HOMM REW - NONE 52K 650000 300 -7 16 -- 88 CAM-HAD. 4-13H 36-54E SWING= 109. PHASE= 73. EMIS-ANG. 1. CAN-RAD+# 1791+2 KM+ SUN AZM= 91+5 S. W. PART OF LAC OF TANUNTIUS. LYELL 85246 293 1 2 1 100 4.12N 36.65E 52 000 0.00 152503 11-18-66 LUNAR ORB HI. 610MM 86W - NONE 52K .6 16 ~.13 SUN AZHE 91.5 LANGUADAR 4-11H 36-66F SWINGE 1026 PHASER 734 EMIS-ANGAR 1-CAN-RAD. 1791-2 KM. S. A. PART OF LAC 65 TARUNTIUS LYELL L Z 1 11 4-09N 36-78E 52 \*\*\* \*\*\* 152506 11-18-66 LUNAR ORB HI. 610MM BLW 85246 296 +5 16 -- 13 - NONE 52K CAM-RAD. 1791-2 EM. SUN AZM# 91-5 LAMANADA 4408N 36.79E SWING= 105. PHASE# 73. EMISANG.# 1. S. W. PART OF LAC 61 TARUNTIUS.LYELL 1 2 4 110 4009N 36.79E 52 000 0000 152536 11-18-36 LUNAR ORB LU.F-80MH 864 - NAME 52K 45BBBB 31 +5 16 ++88 CAM-NAD-= 4-68N 36-80E Swing= 120. PHASE= 73. EMIS-ANG.= 1. CAM-RAD ... 1791-2 KM. SUN AZH - 91-5 S. W. PART OF LAC 61 TARUNTIUS . LYELL L 2 1 13 4.04N 37.04E 52 -- ... 152516 11-18-66 LUNAR ORB HI. 610MM 86W - NONE 52K 85246 314 +2 17 -- 13 CAM-NAD-= 4-U3N 37-04E SWING= 123. PHASE= 73. EMIS-ANG-= 0. CAM-RAD . 1791-2 KM- SUN AZH= 91-5 S. W. PART OF LAC 61 TARUNTIUS . LYELL - NONE 52K 65U000 339 +3 17 1 2 2 13 4-44N 37-35E 52 \*\*\* \*\*\* 15251C 11-18-66 L AR OR "OFF#80HM B&# CAM-RAD. # 1791-2 FM. 5UN A7M= 91.5

		LAC 61 TARUNTIUS *LYELL	The state of the s
М 5	IS MAG FR.PHU ION HULL OK	TO PRIN,PT, ORB GET GHT M-DA-YR CAMEHA-LENS OR FILM-EXPOSURE ALTI SCALE AT T	PAGE 180
	R HAIN	LUNG. (*MESTIMATED) SENSOR AND FILTER TUDE PRIN. AZ	ANG. ANG. FWD
		FULN 37-17E 52 *** *** 152512 11-18-66 LUNAR ORB HE, 610HH B&W - NONE SIK 83607 347  5- N- PART OF LAC 61 TAHUNTUS 73. EMIS-ANG.** D+ CAM-PAD-	VERT S.
		UIN 37-18E 52 *** *** 152512 11-18-66 LUNAR ORB LO*F#80MM 86W = NONE 51K 6375NO 7 5- W- PART OF LAC 61 TARUNTING 178-178-178-178-178-178-178-178-178-178-	
		99N 37-30E 52 ••• ••= 152514 11-18-66 LUNAR ORB HI, 610MM 86W - NONE 51K 83607 44 5- W- PART OF LAC 61 TABUNTALS - 73- EMIS-ANG-# 0- CAN-RAD- 1700 7	<u>-</u>
		99N 37.31E 52 000 0000 152514 II-18-66 LUNAR ORB LU.F=80MM 86W - NONE 51K 637500 37 S. W. PART OF LAC 61 TARDATUS 200 EMIS-ANG.W 0. CAMERAD. 1788 2	
		96N 37.43E 52 *** *** 152516 11-18-66 LUNAR ORB HI. 610MM BGW "NONE 51K 83607 71 5. W. PARI OF 1AC 61 TANNATAN 73. EMIS.ANG. D. CAMARAN	•2 1713
. •	CAM-HAD.* 3.	6N 37.44E 52 *** *** 152516 11-18-66 LUNAR URB LO.F.BBMM B6W - NONE 51K 637500 57	•3 1789
	LAM-NAD.= 3.	JN 37-56E 52 *** *** *** 152518   1-18-66 LUNAR URB HI * 610MM B6W - NONE 51K 83607 A1  93N 37-55E	
		4N 37.57E 52 ••• ••• 152518 11-18-66 LUNAR ORB LO.FRBOMM B6W - NONE 51K 63750O 69 S. W. PART OF LAC 61 TERMINATURE 73. EMIS.ANG.= 1. CAMARAD	
		IN 37.69E 52 *** *** 152520   1-18-66 LUNAR ORB HI. 610MM B6W * NONE 51K 83607 B7  FIN 37.67E SWING= 256. PHASE= 73. EMIS.ANG.= 1. CAM-PAD. 1780 2.000	
		IN 37.7UE 52 152520 11-18-66 LUNAR ORB LO.F.BOHM B&W - NONE 51K 637500 76	
		N 37-87E 52 *** *** 152522 11~18~66 LUNAR ORB NI 610MM 86W ** NONE 51K 83607 90 S* *** PART OF LAC 61 (ANUNTY) *** TO EMIS************************************	•6 1713
2	2 19 3.59 CAM-HAD-= 3.8	№ 37+83E 52 ••• •»•» [52523 11=18+66 LUNAR ORG LOSF#80MM 86W — NONE 51K 6375ND 81 ЫN 37+81E SHING# 249» PHASE# 73» EMIS+ANG+# 1» CAM-PAD+# 1790+2 KH» SUN AS	

				Ĺ	AC 61 T.	<b>AKUNTI</b> US	5.LYELL									. سيار	,
H 3	S MAG FR	.PHOTO	PRIM_PT													PAGI	E 181
•	# M; #	A & N	LUNG	•	(fmEST	[MATED)		3EN301 TYPE	•		-EXPOSURE AND FILTER		MI PT.		ANG,	, ANG,	, F#D.
			S. #.	PART	OF LA	C 61 TA	II-18-66 L PHA5E= RUNTLUS.LYE	FUID#	ANG . P	1.	CAM . RAD	.E &1	00.	n7 9; SUI			8, 9 13
			37.96E N 37.94E S. W.	52   E Part	Swing. Of La	152525 253. C 61 TAI	li-18-66 L PHASES RUNTIUS LVE	UNAR ORB LO 73. EMIS.	ANG.=	1.	* NON	1E 51K	43750	n	4.		
			PORTHERN	PART	OF LA	C 61 TAR	II-I8-66 LI PHASE= RUNTIUS,LYEL	/3. EMIS.	ANG.= 4	٠.	- Non	E 50K	8194	7 99	3.	8_2t	-,••
L 2	CAH-NAD+	3 • 26A	40.45E 348.04 '4 3001HERN	52 • Part	SWING=	152613 266. C 61 TAN	HASEM	NAR ORB LO	.F=80HM ing.= 4	964	- NONI	E 50K	62500	0 97	3	0 <i>2</i> į	-,••
. 2	i 22 Cah-kad.:	3•22N * 3•24N	43.08E 40.96E Scuthern	52 • PART	SWING- CF LAC	152615 268. 61 TAR	II-18-66 LU PHASE* Untius,Lyel	NAR ORB HIG 73. EHIS.A	610#H  NG = 4	8&W •	" NONE						
	CAM-HAD.	3.24N	41+DRE 40+97E SOUTHERN	52 +	SWINGE SELAC	152615 266.	PHASES	NAR ORB LO. 73. EMIS.A	F=80MM   Ng.= 4	B&#	™ Noné Cam∝rad•#	5 Sor	42500C				
		;	SUUTHERN	PART	OF LAC	61 TARI	II-18-66 LU PHASE: Untius,Lyel	/3. EMIS.A	NG.= 4.	•	- NONE	50K	A 1 0 4 7	,			
		3.214 3.214	41+22E 41+10E SUUTHERN	52 +	SHINGH OF LAC	152617 ( 266.		VAR ORB LO.	NG.= 4.	36W	- NONE	Snr	£ 25 n=n				00
		3.17N 3.19H S	41.34E 41.22E SOUTHERN	52 •• Part	* **** Swing= ; Of Lac	152619 1 268. 61 Taru	PHASE= 7	IAR ORB HI.	46.= 4.	16¥	" NONE	50K	81947	99	# . <b>3</b>	21	
		3+17N 5	41+35F 41+23E 001HERN (	52 ** Part	• • • • •   Swing= ; Of Lac	152619 <u>1</u> 266. 61 taru	1-18-66 LUN PHASE= 7	AR ORB LOSE 3. EMIS.AM	iG.= 4.	6 H	- NONE	Sok	625000	0.0		•	-,88
		9.59N NE8.E	36.34E 5	53 *** ! ART U	* **** 1 Swing= 3 F Lac	185400 t 106. 61 TAKU	I-18-66 LUN PHASE= 8	AR URB HI* I+ EHIS+AN	G.= 12.	6 W	- NONE	51 K	83407	7			~***
2	2 25 Can.nad.=	3.57N 3.83N	3		_				#80MK B( G•= 12•		= NONE CAM+RAD+=						~,••

SION	RULL OR	LAT.	*	TIBES-H	R M SEC	Н-БА-ҰЯ С	AMERA-LENS OR Sensor Type	FILM-E	XPOSURE AND FILTER	ALTI SCALI TUDE P Henemi K=KM.	RIN.	ΑZ	ANG. ANG	E FWD.
į 2	£ 26 CAN-NAD.*	408 - E	36.48E 5 36.24E 5. #. PA	3 eee eee Swing= Ri of - La	185402 306• ; 61 13	II-18-66 LUN PHASE= B RUNTIUS.LYELL	AR ORB H1: 610MM I. EMIS-ANG. I	86W 2.	MONE CAM-RAD-R	51K 1790+2 KH	836 <sub>0</sub> 7 •	136 SUN	12+0 16 AZH# 91	3 <b> 7</b>
L 2	2 26 . CAM.NAD.=	444.6 Nu8.6	36+25Ł	S∦ING≖	305.	11-18-66 LUN PHASE= 8 RUNTIUS+LYELL	AR ORB LO.F=80MM L= EHIS=ANG== 1	86# 2∗	= NONE	51K 6 1790•2 KH	37500 •	5UN 136	12+0 10 AZH# 91	3 <b>~.</b> 07
į 2	i 27 . Cam.nad.*	3.51N 3.77N	36.37E	SWINGE	306.	II-18-66 LÜN PHASE# 8 HUNTIUS.LYELL	AR URB HI. 610MH 1. EMIS.ANG I	8&W 3.	₩ NONE Cam•rad•=	51K 1798+2 KH	83607 •	136 SUN	12+1 15 AZH# 91,	3 <b></b> 11
ί2	2 27	3+524 3+77N	36.38E	5# i ng=	305.	II-18-66 LUN PHASE= B RUNTIUS,LYELL	AR ORB LO.F=80MM 1. EMIS-ANG.= 1	Ð&₩ Ž•	- Nnne Cam•rad•=	51K 6 1790+2 KM	37500 •	135 SUN	12•1 15 AZH= 91	38A
L 2			36.51E	Swing=	305.		AR ORB H1. 6 <sup>‡</sup> GMM 1. EHIS-ANG.= 1		- NONE					
L 2	Z 28 CAMoNAD•=	J.49N. J.75N	36.528	SWING=	305•	11-16-66 LUN PHASE= 8 RUNTIUS:LYELL	AR ORB LO.F.BOMM t- EHIS.ANG.= t	86# 3.	- NONE					
ι 2			36 +55€	SHINGE	126.		AR ORB HI. 610HM 2. Emis-Ang.= L		- NONE					
į. 2	2 29 Cam-Nad-=	3.54N 3.34N	36.55E	Swing.	:27.	II-18-66 LUN PHASE® 6 RUNTIUS+LYELL	AR ORB LU.F.BOMM 2. EMIS.ANG.= 1	86# 2+	" NONE	49K 6 1788•2 KH	12500	317 SUN	12+1 11 AZH# 91	7 -,** •6
L Z	1 30 Can.nad.=	4-57N 1-32N	36+66E	S#1116=	127.	II-18-66 LUN PHASE= 6 KUNTIUS:LYELL	AR ORB HI. 610HH 2. Emis.ang.= 1	2 +	T NONE	49K 1788•2 Kri	80328	317 SUN	12.0 Z	0 <b>-,</b> 20
L 2			36.67E	S# [ NG =	127.		AR ORB LO.F=80MM 2. EMIS.ANG.= I		CAH+RAD+=					
ι 2	1 31 CAMeNAD+#	J+55N J+29H	36.78E	5 4 1 HG=	127.	II-18-66 LUN PHASE= 6 RUNTIUS,LYELL	AR ORB HI. AIDMM 2. Emis.ang.= 1	1 B6# .2.	= NONE CAH+RAD+#					
į 2	2 31 CAM+HAD+#	3+55N 3+29N	36+79E	SWING	127.	11-18-65 LUN PHASE= 6 NUNTIUS:LTELL	AR UHB LO-F-BONM 2. EHIS-ANG.# 1	1 860 2•	= UNNE CAH•RAD•=	49K 6	12500	318 SUN	11.9 2 AZH# 91	ŋ <b>-</b> ,89 •6

# 5 E U N	RULL OR LAT.	PT. URB GET GHT # TIMES-HR M SEC DNG. (F=ESTIMATED)		AND FILTER TUDE	PRIN, AZ .HI PT.	L T SUN 51DE. ANG. ANG. FWD. FR. LAP VERT 8. 8
L Z	CAM.NAD. 3.27N 36.	68E 54 *** *** 222319 •9GE SWING= 127• W. PART OF LAC 61 TAR	II-18-66 LUNAR ORB HI. 610HH B6# Phase= 62. Emis-Ang.= 12. Untius-lyell	** NONE 49 CAM-RAD-* 1788	K 80328 318 •2 km• sun	11+8 20 ++66 AZH= 91+6
į 2	LANAD 3.26N 36.	69E 54 °°° °°° 222319 •91E Swing= 128° w. part of Lac 61 tar	II-18-66 LUNAR ORB LO.F=BOMM B&B Phase= 62. Emis.ang.= I2. Untius.lyell	- NONE 49 Cam-rad.= 1788		
ί 2	LAH-HAD-= 2-75N 33-	62E 57 00* 00*0 084941 61E SWING= 2790 W. PART OF LAC 61 TAR	II-19-66 LUNAR ORB HI. 610MM BĞW PHASE# 68. EMIS-ANG.# O. Untius,lyell	= NONE 49 Cam+rad+= 1788		•4 22** 1 AZH= 91.4
L 2	CAM-HAD.= 2.74N 33+	53E 57 *** *** 084941 *61E SUING= 265* n* PART OF LAC 61 TAR	11-19-66 LUNAR DRB LO.F#80MM B&# Phase= &8. Emis-Ang.= 1. Untius:lyell</td><td>- NONE 49 Cameradem 1788</td><td>-</td><td></td></tr><tr><td>L 2</td><td>CAM-NAD 2./2N 33.</td><td>74E 57 *** *** 034943 •73E SWING= 277* W. PART OF LAC 61 TAR</td><td>11-19-66 LUNAR ORB HI. 610MM BGW Phase= 68. Ehis.ang.= 1. Untius.lyell</td><td>~ NONE 49 Cam•rad•# 1786</td><td></td><td></td></tr><tr><td>L Z</td><td>CAM+NAD.= 2.724 33+1</td><td>75E 57 *** *** 084943 •73E SWING= 266 • W. PAHI OF LAC 61 TAR</td><td>1:-19-66 LUNAR ORB LO.F=80MM B&W PHASE= 68. EMIS.ANG.= :. Untius.lyell</td><td>- NONE 49 CAM+RAD+= 1788</td><td>•</td><td>· ·</td></tr><tr><td>ι 2</td><td>LAM-NAD-= 2-74N 33-1</td><td>37E 57 *** **** 084945 *85E SWING= 276* W. PAKT OF LAC 61 TAR</td><td>11-19-66 LUNAR ORB HI. 610MM BGW PHASE= 68. EMIS.ANG.= 1. UNTIUS.LYELL</td><td>- NONE 49 Cam•rad•# 1789</td><td></td><td></td></tr><tr><td>€ "2</td><td>CAM-HAD-= 2-69N 33-</td><td>97E 57 ••° ••• 084945 •86E 5wing= 266• #• Part of Lac 61 tak</td><td>11-19-66 LUNAR ORB LO.F=80MM B6W Phase= 68. Emis.ang.= 1. Untius.lyell</td><td>MONE 49 Camerades 1788</td><td></td><td>_</td></tr><tr><td>L Z</td><td>CAM-NAD-= 2.67N 33+</td><td>99E 57 ••• ••• 0 084947 •97E SWING= 275. •• PART OF LAC 61 TAR</td><td>II-19-66 LUNAR ORB HI. 610HM B6W PHASE= 68. EMIS.ANG.= I. UNTIUS.LYELL</td><td>** NONE 49 Camerado 1788</td><td></td><td>-</td></tr><tr><td>ί2</td><td>CAN+NAD+= 2+67N 33+</td><td>JUE 57 *** **** 084947 198E SWING= 267* n. Part of Lac 61 tan</td><td>11-19-66 LUNAR ORB LO-FERDAM B&W PHASE= 68. EHIS.ANG.= 1. UNTIUS:LYELL</td><td> NONE 49 Cam-rad-= 1788</td><td></td><td></td></tr><tr><td>L 2</td><td>CAM-NAD-= 2-65N 34+6</td><td>11E 57 *** *** 084949 *09E SHING# 274* ** PARI OF LAC 61 TAR</td><td>11-19-65 LUNAR ORB HI. 610MM B6W PHASE= 68. EMIS.ANG.= 1. Untius.Lyell</td><td>- NONE 49 CAM+RAD+ 1788</td><td></td><td></td></tr><tr><td>i Z</td><td>CAM+HAD+ 2.64H 34+</td><td>2E 57 *** *** 084949 10E Swing= 267* n. Part of Lac 61 tan</td><td>IL-19-66 LUNAR ORB LO.F=80MM HGW PHASE= 68. EMIS.ANG.= 1. Untius.lyell</td><td>" NONE 491 Cam-rad.= 1788</td><td>6125nD 99 2 KM• SUN</td><td></td></tr></tbody></table>			

THE PERSON NAMED IN THE PE

S. W. PART OF LAC 61 TARUNTIUS.LYELL

SION	RULL OR LAT	• #	GET GMT M=DA=YR TIMES=HR M SEC (!=ESTIMATED)	R CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER		AZ ANG. ANG. F	
լ 2	1 40 2+61N CAM+HAD+= 2+62H	34.23E 57 34.21E S. W. PART	*** *** 084951 11-19-6 5ming= 274 Phas of Lac 61 taruntius,	66 LUNAR ORB H1. 610MM 6E= 68. EHIS.ANG.=   LYELL	86W = NONE 1• CAM•RAD•≡	49K 80328 1788•2 KH•	105 1+0 23 =4 SUN A7H= 91+4	. 1 4
L 2	2 48 2.62H CAM-NAD-= 2.62N	34.21E	*** **** 084951 11-19-6 Swing= 267* Phas Of Lac 61 Takuntius*	E= 68. EMIS.ANG.=	B6W - NONE CAM-RAD-#	49K 612500 1786•2 KH•	99 1.1 23 -: SUN AZH= 91.4	•88
L Z	1 41 2.59N Cam-Nad.= 2.60N	340326	••• •••• 084953 11-19-6 Swing= 273• Phas of Lac 61 Taruntius•	iE= 68. EMIS:ANG.= 1	B&& - NONE i. CAH+RAD+=	49K 80328 1788+2 KH+	105 1+2 23 = 0 SUN AZM= 91+4	•14
£ 2	2 41 2.59N Can.nad.= 2.60N	34•33E	*** **** 084953 11-19-6 Swing= 268*     Phas of    Lac 61 taruntius;	E= 68. EMIS.ANG.= 1	B&W - NONE B&W - NONE	49K 612500 1788•2 KH•	99 1.2 23 SUN AZM= 91.4	.88
ι 2	1 42 2.56N CAR.NAD.= 4.57N	34.40E	••• •••• 084955 11-19-6 Swing= 273. Phas of Lac 61 Taruntius.	Em 68. EH15.ANG.m	86W - NONE 1. CAH-RAD-#	49K 80328 1788•2 KM•	105 1+3 23 SUN AZH= 91+4	. 1 4
į 2	2 42 2.56N Cam. #AD. ≠ 2.57N	370756	*** **** p84955 11-19-6 Swing= 268* Phas of Lac 61 Taruntius:	ET 68 EN[5sANGs♥ 1	B&W - NONE CAM+RAD+#	49K 612500 1788•2 xH•	99 1+3 23 Sun Azm= 91+4	.88
L 3	∠ 5 3.10N CAM.NAD.= 3.008N	34.288	••° •••• 100041 2+15=6 Swing= 85• Phas of Lac 61 Taruntius•	E# 75. EMIS.ANG. = 2	86W - NONE Z. CAM-RAD-#	60K 750000 1799•2 KM•	285 1.7 13 SUN AZH- 92.3	, • •
ξ 3	NFU-E & I NEU-E =-GAU-MAJ	34•4ZE	••• •••• 100043 2-15-6 Swing= 82• Phas of Lac 61 Taruntius•	E= 75. EHIS.ANG.# 2	B&W = NONE 2. CAM-RAD.=	60K 98361 1799+2 KH+	282 1.5 13 -, SUN AZH= 92.3	, в
ί3	2 9 2.88N Can.Nad. = 2.87N	34 • 85E	••• ••• (BOUS) 2-15-6 Swing= 82• Phas UF Lac 61 Taruntius•	t= 75. EHIS.ANG. = 1	B&H → NONE	59K 737500 1798+2 KN+	282 1+1 14 SUN AZM# 92+3	.88
į 3	1 10 2.82N LAM-MAD+= 2.82N	34.98E	*** **** 108053 2-15-6 Swingm 77* Phas Of Eac 61 Tamuntius,	E= 75. EHIS.ANG.= 1	86# - NONE La CAM-RAD.	59K 9672l 1798•2 KH+	277 .9 14 SUN AZH# 92.3	, 10
ί 3	2 11 2+77N CAH+HAD+= 2+76N	35.10E 44 . 35.13E 5. W. PART	*** **** 100u56 2-15-6 Swing= 79, Phas of Lac & Taruntius,	7 LUNAR ORH LO.F=80MM E= 75. EHIS.ANG.= 1 LYELL	B&W = NONE  - CAM-RAD-#	59K 737500 1798•2 KH.	280 +8 14 -, SUN AZH# 92,2	.88
į 3	CAM-NAD+= 2-71N	35 • 27E	*** **** 100058 2*15=6 SWING= 70* PRAS	E= 75. EH[S.ANG.= 1	B&W - NONE CAM-RAD-=	59K 76721 1798•2 KH•	271 +6 14 -, SUN AZH# 92+2	10

REPRODUCIBILITY OF THE

•6 16 -•12

SUN AZM# 92+2

95082 130

HONE 58K

CAM+RAD+= 1797+2 KH+

SHINGE 289+ S. W. PART OF LAC 61 TARUNTIUS LYELL

4.		LA <sup>(</sup>	C & TARUNTIUS.	LYELL	•						. 402	
61						ETLMEEXPOS	ÜRF	ALTI SCA	LE AT 1	1 1 1	T SUN S	DE.
910N	RULE OR # MAIN	PHIN.PT. URB Lat. # Long.	(+=ESTIMATED)		TYPE			K=KH* HSN*11:	*1.		VERT	8. 8
	•	6N 35+39E 44 +		2-15-67 LUNAR PHASE= 75.	ARD Pt. AIGHM	86W -						
ιä	2 13 2.0 CAH-NAD+# 20	56N 35.39E 44 4		2+15-67 LUNAR PHASE# 75+	ORB LO.F.BONH EMIS.ANG.=	L. CAP	H-RAD-=	1798 · Z ×	(₩•	5UN /	.5 15 AZM# 92.2	
į j	1 14 2+4 5 = 4 CAN+HAJ	5UN 35.53E 44		Z=15=67 LUNAR PHASE= 75.	ORB HI. 610MM EMIS.ANG.=	D. CAI	M.RAD.=	1797 • 2 •	(M+	SUN	+4 15 AZM# 92+2	
ι 3	1 15+ 2+1 CAM+NAD+= 2	55N 35+68E 44 1		2-15-67 LUNAR PHASE= 75.	ORB HI. 610MM EMIS-ANG-=	G. CA	M+RAD+=	1797.2	K M +	ייטכ	+3 15 AZH# 9Z+2	
	CAM-NAD-= 2	55N 35+68E 44 +55N 35+69E	SWING 55.	2-15-67 LUNAR PHASE* 75.		O. CA	M.RAD. m	1797 • Z	K H •	2014	+3 15 AZM# 92+2	
	CAM-HAD-# Z	49N 35-8ZE 44 -5GN 35-8ZE	5WING= 358.	Z-15-67 LUNAR Phase= 75. Runtius.lyell								
L 3	1 17 2. Camenade# 2	44N 35.96E 44		2-15-67 LUNAR Phase 75-	ORB H1. 610MP EHIS+ANG+#							
i. 3	2 17* 2: CAM+NAD+* 2	44N 35.97E 44		2-15-67 LUNAR PHASE= 75	R ORB LO.F=80N) EMIS'ANG.=	g. c/	AM +RAD +=	1797•2	KH•	SUN	.2 15 A7M= 92+2	
د <sub>.</sub> ه	1 18 2	.38N 36.11E 44		3 2-15-67 LUNAS PHASE= 75	R ORB HI. 610H EHIS.ANG.	0+ C	AM•RAD•=	1797.2	KM+	20N	44 15 AZH# 92±2	
	CAM.NAD.	.33N 36. <sup>2</sup> 5E 44 2.34N 36.24E	SWING 295.	5 2-15-67 LUNAI PHASE= 75 ARUNTIUS-I YELI	· Eulaskuds.	1. C	AH•RAD•#	1797+2	KM•	SUN	.5 15 AZM= 92.2	•
را	2 19 2 CAH-NAD-#	.33N 36.26E 44	*** **** 10011 Swings 292*		R ORB LO.F=80H • EMIS•ANG•#	Н В6# О• С						
		च्या सर्व र रा∵	•					- EOK	95092	130	+6 16	12

PHASE 75. EMIS.ANG. 1.

	1	#	MAII	t LA≀	LONG	,		ATEDI			SENSO! TYPE	₹		AND F	ILTER	M=N+H	PRIN.	ĄŽ	L T SUN S ANG. ANG. FR. VERT	F#D. Lap g. k
L	3	Z CAH.	25 NAD == NORTH	0.8us .699 1EKN PA	41.99E 42.03E RT OF LA	45 • C 79	COFOHBO. Zainc=	133204 359. NE.M.NI	Z=15-67 Phase: Ectar	LUNAR 66.	ORB LO Emis	,F=80MP ANG.= SOUTE	1 B&W 4. KERN PAR	CAMORA T OF LA	NONE 10.#	56K 1795+2 Tarunti	700000 KH. US.LYELL	199 SUN	3+6 23 A7Mm 91+3	-,••
L	3	Z CAH+		207/3	72 0 2 0 2		3 W I N G &	101.	2*15+67 Phase Ectar	. 71.	EMIS.		20.	- A M	_	4-0/4	4.80		19+8 25 AZH= 91+2	-,••
e.					771376			1750	PHASE		EMIS.	N	7	~ * ** ** *	_				+7 23 AZHm B3+6 PETAVIUS+H0	
L	4	I Cambi Lac 6	61 I Nader I Taru	4+14k 14+61 14+14k 14+14k	49.69E   51.63E  LYELL	12 •	SWING=	173428 93. LAC 62	5-14-67 PHASE H.UNDARUN	LUNAR 62. 1.S.CR	088 HI Enisa Isium	ANG . B LAC	1 86W 3. 3 43 MAC	CAM+RA ROBIUS,	NONE D+= PROCL	2734K 4473•2 US	4481967 KH+ & LAC	278 SUN 44	1 • 2 25 A ZM# 96 • Z CLEOMEDES • •	-,49 M.
i.	4	2	**************************************	4-14H 13-87N	49.69E	12 •	** *** 5#1NG=	173428	5-14-67	LUNAR	ORB LO	.F=80MM	1 86W	•	Nove	27386	34175000	278	1 • 2 25 Az## 96 • 2	_ 0.
		- C M 17 0 1	AU +	170775	42075		381N6=	329.	5-15-67 - PHASE: ART OF LA	. 47.	CMIC.	AMC -		- A M	_				+4 24 AZH# 82+8 L	-,49
Ļ	4	l Carter	66 1 HAD•=	3.47N 13.87N	43.04E 44.98E	13 •	* **** 5wing=	053534 72.	5-15-67 PHASE	LUNAR	ORB PI	. 610HM	86W   3.	_ CAM-DA	NONE	2731K	4477649	258	1+2 24 AZM= 95+7 9 COLOHBO.N	
L	4	2 CAM+1	14U+-	13+0/N	44.486		>MINGE	/2•	5=15=67 PHASE= & LA	63 .	EMIS.	ANG	3.	- CAH+RA	NONE D.m	2731K 4470+2	341375n0 KM•	25 A Sun	1+2 24 AzH= 95+7	<b>~</b> , 74

- L 4 L 72 15+775 37+86E 14 \*\*\* \*\*\* 170548 5-15-67 LUNAR ORB HI\* 610MM B6W NONE 273ZK 4478689 131 1+2 24 -+47

  CAM+NAD+# 14+5US 36+35E SWING# 316+ PHASE# 68+ EMIS+ANG+# 3+ CAM+RAD+# 4471+2 KM+ SUN AZM# 82+2

  #ESIERN PART UF LAC 79 COLOMBO+NE I CENTRAL PART OF LAC 97 FRACASTORIUS+S+NECTAR 6 LAC 61 TARUNTIUS+LYELL
- L 4 1 73 12-53N 37-59E 14 000 0000 173646 5=15-67 LUNAR ORB HI. 610MN 868 NONE 2727K 4470492 209 07 25 --,29

  CAM-NAD-- 13-82N 38-33E SWING= 230 PHASE= 640 EHIS-ANG.= 20 CAM-RAD-= 446602 KM0 SUN AZM= 95.4

  MESTERN PART OF LAC 61 TARUNTIUS.LYELL : CENTRAL PART OF LAC 43 MACROBIUS. 6 No. 80 PART OF LAC 79 COLOMBO.NE.M
- L 4 2 735 12-54N 37-59E 14 000 000 173646 5-15-67 LUNAR ORB LO-F#80HM 86W NONE 2727K 34087500 209 09 25 -.00

  CAM-HAD-# 13-82N 38-33E SWING# 23- PHASE# 64- EHIS-ANG-# 2- CAM-RAD-# 4466-2 KM- SUN AZH# 95-4

  ULGHAUED NEGATIVE : LAC 61 TARUNTIUS-LYELL : P>1/2 HOON SPHERE 6 LAC 119 RHEITA-JANS
- L 4 1 77 14.935 30.15. 15 \*\*\* \*\*\* US0718 5=16=67 LUNAR ORB HI. 610MM 86% NONE 2730K 4475410 141 \*4 23 -.49 Cam.wad.= 14.465 29.77E Swing= 327. Phase= 68. Emis.ang.= 1. Cam.rad.= 4469.2 km. Sun azm= 83.0 Lac 79 Colombo.ne : lac 78 Theophilus : Lac 96 Altai Scar : Lac 97 Fracastorius.5.nectar : lac 60 J.cae5ar.sabi

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																	7.45	•••
	Ħ	#	MAIN #		LUNG.	4	(I#ESTĮ)	MATEDI			TYPE		EXPOSURE AND FILTER	TUDE H=KH•	PRIN. II PY.	ĄZ	ANG. ANG. FR. Vert	F#D. Lap B. R
		LAC	61 TARUN	I I US , L	TELL		1	LAC 6G	J. CAESAR	SABINE	ENISTANG.	3. AC 43 HA	- Non CAM+RAD+# CROBIUS+PROC	4461•2 LUS	KM. 6 LA	SUN C 42	AzH= 95.4 H.SERENITY	, D
	L	AC 61	TARUNTI	US,LYE	LL	,	B>1/2	HOON 51	HERE ! L	AC 13	ARISTOTE	1 LAC 6	- NON CAM+RAD+= M+UNDARUM+	4461.2 41514 <sub>0.</sub> 5	KH•	SUN LAC	AZM= 95.4 113 HAURO	ן, לכּשׁ
	լ 4												- NDN CAM+RAD+= DLE NEAR51DE					-,**
	<u> </u>												- NON CAM-RAD-= BLE NEARSIDE				1+7 22 AZM=110 <sub>47</sub>	-,**
	Ł.	2 CAM• AC <i>11</i>	IJB 14: NAD+= 14 PTOLMAEL	·265 1·455 J5, I	2.36W 3-17W W>1/2	400M	SWING= SPHERE;	171651 262. LAC 1	5-18-67 PHASE= 26 CLAVIU	LUNAR 70. S.M.I	URB LU.F=801 EMIS.ANG.= LAC 25 CASS	MH B&W l. Sini.alps	* NONI CAM+RAD+* HTS	2719K 4458+2	339875n KH+ & L	B 76 5UN AC 61	A7M= 83.8 TARUNTIUS:	LYi
	L 4	CAM.	3 W*AVb( NVD*= 17	.79N ).89N )KUH.H	3.584 1.484 7.584	20 (	SWING.	174732 82. @>1/2 M	5-18-67 PHASE# OOM SPHER	LUMAR 66. E	ORB LO.F=801 EHI5.ANG.= 1 L/	MM 86W 3. AC 12 PLA	T NONI CAM+RAD+= TO+ALPINE V	E 2693K 4432∙2 IL•	3366250 KM+ 6 La:	D 267 SUN C 61	L+3 21 AZM= 94.7 Taruntjus,L	67 .Y
(	L 4	Z Cam.	\$22 42. NAD.= 42	. JBN 2 • J6N	9.24m	22 4	Sw1NG-	182411	5-19-67	LUNAR	ORE LO.F=801	4M β&₩	- NONE CAM-RAD.= DE BYRD.PEAR	2895K	3618750	105	1 • 4 21	22
	ر ب <u>ا</u>	2 (AM. AC 28	177+ 38: NAD.= 33 MAUSS.ME	81N 96N SSALA	67.86E 99.33E .26NO	31 •	5% 1 NG=	094529 282. Noon sp	5-24-67 PHASE= 'HERE 1 L	LUNAR 100. 16 Ja	ORB LO.F#80P Emis.ang.= Taruntius.Ly	M B&W 33. FELL :	- NONE CAM•RAD•= LAC ?9 HUME	5492K 7231•2 OLT•GIB	6864999° KM• BS &	7 290 SUN LAC	7 - 6 15 AZM=258 - 7 5 PETERMAN	 In ,
	L 4	2 CAM• AC 115	184 35. 500 = 34 FURNERI	185 ( 1+035  US	97+32E 97+52E W>1/2	33 • HOON	SHINGE SPHERE I	013032 269. Lac 1	5-25-67 PHASEN 14 RHEITA	LUHAR 113. JA :	ORB LO.F=80A Emis-Ang.= Lac 61 Tarl	IM 86W 30. Jntius,ly	- NANE CAM+RAD+m ELL	5790K 7529+2	72374991 KM+ & L:	9 259 SUN 4C 44	6+6 7 AZMWZ75+8 CLEOMEDES,	-, + + H - C
•	L 4	I CAM• AC 27	GEWINUS, 191 38.	34N ! 1•95N AT :	93+79E 86+05E w1/4 M	33 • 2000	SPHERE :	094786 282• Lac 4	5=25=67 PHASE= METON:DE	LUNAR 107. SIF :	ORB HI. 6101 EMIS.ANG.= LAC 5 PETER	#36 Mi .P€ AH .NNAMS	# NONE CAM+RAD+# YN	5503K 7242+2	902131 KH+	1 288 SUN 1C 61	7.7 16 AZH#257.6 TARUNTIUS.	-,++ LYE
ŧ	4	I Cam •	192 38. Nau.= 33	22N !	96.05F	33 •	Setuc-	094769 282-	5-25-67	LUNAR	ORB HI. 610M	IM B&#</td><td>T NINE Cam-rad-m Yn</td><td>5504K</td><td>902295</td><td>288</td><td>7.7 16</td><td>9r</td></tr></tbody></table>						

38 U+935 49-10E 19 ++\* ++\* 094936 8-10-67 LUNAR ORB LO-F=80MM B&W NONE 103K 1287500 269 59.5 16 CAM.NAD.= .915 55.52E Sw1NG= 177. PHASE 8. EHIS.ANG. = 66. CAM-RAD. # 1842-2 KM-N. E. PART OF LAC 79 COLOMBO, NE : SOUTHERN PART OF LAC 61 TARUNTIUS, LYELL 5UN AZM= 88.2 & LAC &Z M. UNDARUM, S. CRISTUM

			ALTI SCALE AT TILT SUN SIDE, TUDE PRIN, AZ ANG, ANG, FWD. H=N.MI PT, FR. LAP KBKH. VERT 8. K
L 5 2 41 2+U45 46+94E 21 +4 CAH+NAD+* 2+4U5 51+87E NOHTHERH PART UF LAC 79 (	9	URG LOIF=ODMH 86W T NONE EMIS•ANG•= 59• CAM•RAD•# & SOUTHERN PART OF LAC &1	103K 12875nD 274 53+7 17** 1842+2 km+ Sun Azm= 87+8 Taruntius,Lyell
CAN-NAD-= .885 48-48E	SWING 176. PHASE: 17.	URB LO.F=80MM B&W - NONE EMIS-ANG.= 55. CAM-RAD-= & SOUTHERN PART OF LAC 61	
CAM+NAD+# +975 43+19E	SW1:1G= 176. PHASE= 64.	GRB LU.F=BOHM B&# - NONE EMIS.ANG.= 5. CAM.RAD.= & S. E. PART OF LAC A:</td><td></td></tr><tr><td>CAH+HAD+= +715 43+22E</td><td>SWING# 179. PHASE# 64.</td><td>ORB LO.F. BOHH BOW - NONE ENTS ANG. S. E. PART OF LAC 61</td><td>102k 1275000 273 4.8 2188 1841.2 km. Sun Azm# 88.2 Taruntius.lyell</td></tr><tr><td>L 5 Z 47 U•425 42•96E 26 •0 Can-Nad•* •455 43•24E N• Ł• Part of Lac 79 (</td><td>••••• U8U739 B-11-67 LUNAR Swing= 182+ Phase= 64. Colombo,ne.m.nectar</td><td>ORB LO.F=80MM R&W - NONE EMIS.ANG.# 5. CAM-RAD.= & S. E. PART OF LAC AT</td><td>102K 1275000 277 4+8 21 -+88 1941+2 KH+ SUN AZH= 80+3 TARUNTIUS,LYELL</td></tr><tr><td>CAM-NAD-= 1.085 41.42E</td><td>SWING= 2. PHASE= 93.</td><td>ORB LO,F#80MM R&W - NONE EMIS+ANG.# Z&. CAM+RAD+# & S. E. PART OF LAC A1</td><td>102K 1275000 96 24.7 23** 1841.2 km. Sun Azm= 87.9 Taruntius.eyell</td></tr><tr><td>CAM-HAD.= .815 41.45E</td><td>SWING 1. PHASE 93.</td><td>ORB LO.F=80MM BGW - NONE EMIS:ANG.m 26. CAM-RAD:m G S. E. PART OF LAC AL</td><td>102K 1275000 95 24•7 2388 1841•2 km• Sun Azm# 88•0 Taruntius.Lyell</td></tr><tr><td>CAH.NAD.= .525 41.47E</td><td>SWING# Do PHASE# 93.</td><td>ORB LO.F=80MM B&W - NONE EMI5.ANG.= 26. CAM.RAD.= & S. E. PART OF LAC &!</td><td></td></tr><tr><td>CAM+NAD+= +245 41+50E</td><td>Saluge 360. PHASE 93.</td><td>URB LO.F#8DMM B&# - NONE EMIS*Adg.# 26. CAM*RAD*# & S* E* PART OF LAC A1</td><td></td></tr><tr><td>LAM+HAD+= 2+95N 40+UBE</td><td>• • • • • 143,52 8-11-67 LUNAR Swing= 177.</td><td>UKB HI. SIONM BG# - NONE EMIS.ANG. = 56. CAM.RAD. =</td><td>101K 165574 269 51+6 17** 1840+2 KM+ SUN AZH= 89+4</td></tr><tr><td>L 5 2 52 2.92N 35.54E 28 . Cam.nad.= 2.96N 40.00E S. H. Part of Lac 61 taruntius</td><td>• • • • • 143052 8-11-67 LUNAR Swing= 177• Phase= 17• Lyell : S• E• Pari</td><td>ORB LO.F=80MM R&W - NONE EMIS-ANG.= 56. CAM-RAD.= OF LAC 60 J.CALSAR.SABINE,JANSE</td><td>181K 1262500 269 51•7 17 -••• 1890•2 km• Sun Azh= 89•4 N z lac 78 Theophilus 6 lac 79 co</td></tr></tbody></table>	

L 5 1 55 2+21N 34+19E 31 ++\* ++\* 008400 8-12-67 LUNAR ORB H1. 610MM R6W - NONE LOOK 163934 272 8+3 21 ++\*\*

CAM-HAD-= 2+19N 34+67E SWING= 177. PHASE= 60. EMIS-ANG.= 9. CAM-RAD-= 1839-2 KM- SUN A7M= 89+3

S. W. PART OF LAC 61 TARUNTIUS.LYELL

*	NOLL OR LAT	LUNG.	TIMESTHER M SEC		SENSOR Type	FILM-EXPOSURE AND FILTE	R TUDE PRIN. H=N+H! PT. K=KH.	AZ ANG ANG. FR. VERT	FWD. Lap B. W
į 5	2 55 2+22N CAM+NAD+= 2+2UN	34.18E 31 34.67E 5. W. PAR	*** *** 000460 Swing= 178. F of Lac 61 Tab	8-12-67 LUHAR PHASE= 60. RUNTIUS,LYELL	ORB LO.F=89HH EMIS.ANG.=	96# - NGI 9- CAH-RAD-#	NE 100K 125000C 1839•2 KM•	1 272 8.5 21 SUN AZMm 89.3	-, • • }
ι 5	1 56 2+48N CAM+HAD+= 2+45N	34.94E	••• •••• 080405 Swing= 179• For lac 61 tan	PHASE= 60.	GRB H1. 610MH EH15.ANG.#	86W - Noi 9- CAM+RAD++	NE 190K 163934 1839+2 KM+	) 273 8+3 21 Sun azm¤ 89+4	10
<b>.</b> 5	2 56 2.49N Camedado= 2.46N	34.20E 31 34.69E 5. N. PAR	SWINGS 179. TOF LAC 61 TAR	8-12-67 LUNAR PHASE= 60. RUNTIUS.LYELL	ORS LO.F=80MM EMI5.ANG.R	B&W - NO 9. CAH∘RAD.≈	NE 100K 12500AC 1839+2 KH+	274 8+5 21 SUN AZM= 89+4	AA
ι 5	1 57 2.75N CAM-NAD.= 2.71N	34,71E	*** *** 000407 5wing= 181* 1 of lac 61 tar	PHASE= 60.	ORB HI. 610MM EMIS.ANG	B&W - NO 9. CAM+RAD+=	NE 100K 163934 1839•2 KH•	275 8+3 21 Sun Azm= 89+5	EO
լ 5	2 57 2+7uN CAM+NAD+# 2+71N	34.22E 31 34.71E 5. W. PARI	SWING= 181. TOF LAC 61 TAR	8+12-67 LUNAR PHASE= 60. UNTIUS.LYELL	ORB LO.F=80HH ENIS.ANG.#	86W - NAI 9. CAM.RAD.#	NE 100K 12500NB 1839.2 KH.	275 8+5 21 SUN AZH# 89.5	A8 ;
լ 5	1 58 3-63N Cam-nad-= 2-96N	34•/3E	5wING= 183. FOR LAC 61 TAR	PHASE= AO.	ORB HI. 610HH EMIS.ANG.= '	B&W = NO! 9. CAM-RAD-W	163934 1839+2 km+	277 B+3 Z1 SUN AZH# 89+6	10
լ 5	2 58 3+04N CAM-HAD-= 2-97N	34•74E	900 0000 000414 Swing= 1830 of Lac 61 tab	PHASE # 60.	URB LO.F.BOHM E-115.ANG.#	B&N - NOI 9. CAM•RAD•»	VE 100K 1250000 1839+2 KM+	277 8.5 21 SUN AZHW 87.6	<b>-,</b> 08
L 5	1 59 2+17N CAM+HAD+# Z+32N	32.Y3E	••• •••• 031509 Swing= 1• Tof Lac 61 Tah	PHA5E≈ 91.	ORB HI. AIDHN EHIS.ANG. = 2	B&# - No! 4. CAM-RAD-m</td><td>163934 1439•2 km•</td><td>96 22+6 23 Sun Azm# 89+3</td><td>**</td></tr><tr><td>L 5</td><td>2 59 2-18N CAM-NAD-= 2-33N</td><td>34.29E 32 32.93E 5. h. PARI</td><td>OP LAC 61 TAR</td><td>8#12#67 LUNAR PHASE# 91. UNTIUS.LYELL</td><td>ORB LO.F=80MM EMIS.ANG.= 2</td><td>R&# - NO! 4. CAM•RAD•≠</td><td>1839.: KH.</td><td>96 22+4 22 Sun Azm# 89.3</td><td>~ , <b>*</b> a</td></tr><tr><td>ι 5</td><td>1 60 2-47N LAH-NAD-= 2-60N</td><td>32 • 95E</td><td>*** **** 031514 Swing= 1* For Lac 61 Tab</td><td>PHASE® 91.</td><td>ORB HI. 610HM EHIS-ANG.= 2</td><td>B&W = NO G = CAM+RAD+=</td><td>NE 100K 163934 In39+2 km+</td><td>95 22+6 23 SUN AZH# 89+5</td><td>-, 9</td></tr><tr><td>ι 5</td><td>2 60 2°48H CAH-NAD-= 2+61N</td><td>34+32E 32 32+95E 5. 6. PARI</td><td>*** *** 031514 Swing= 1* of Lac 61 Tar</td><td>8-12-67 LUMAR PHASE= 91. UNTIUS:LYELL</td><td>ORB LO.F=HOMM EMIS-ANG.= 29</td><td>B&W = NON 4• CAM⊕RAD•#</td><td>IE 100K 1250nn0 1839•2 KM•</td><td>95 22.4 23 Sun Azma 89.5</td><td><b>88</b></td></tr><tr><td>ι 5</td><td>1 61 2.76N CAM-HAD-# 2.88N</td><td>34.985</td><td>SWINGE D. OF LAC 61 TAR</td><td>PHASE = 91.</td><td>ORB HI. 618MM EMIS.ANG.= 24</td><td>B&W - NON Y• CAM•RAD•±</td><td>IE 100K 163934 1839+2 KM+</td><td>94 22+6 23 SUN AZH# 89+6</td><td>-, 9</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>			

51	UN	KULL	O)	t LA	Τ.	#	71	4ES-H6	M SEC			ERA-LENS OR Sensor Type		KPOSURE AND FILTER	TUDE M=N+M1		ΑZ	ANG. FR.	ANG.	FWE.
L					N 32	78E	Si	#IHG=	<b>8</b> •		91.	ORB LU.F=80MM EM15.ANG.= 2		- None				22+4 AZH=		-,88
L					N 334	OBE	S	4186=	359.		91.	URB HI. 610MH EMIS-ANG-# 2		= NONE						<b></b> 8
L					N 33a	OUE	5	1NG=	359.		91.	ORB LO.F=8UMM EMIS.ANG.= 2		- NONE						-,87
Ŀ			* GAV	• 20	5 30.	97E	S	ING.	0.	PHASE	98.	ORB LO.F=80MM EMIS+ANG+= 3 6 S+	i •	CAM-RAD-	1838+2	KH+	SUN			-,**

TOTAL PHOTUS IN THIS GROUP = 169

MIS MAG FR. PHUTU PRIN. PT. ORB GET GHT M.DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. N TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. FND. MAIN LONG. (IMESTINATED) TYPE M=N.MI PT. FR. LAP KoKM. VERT 8. 8

- L I 2 26 I+62N 7I+7BE 30 \*\*\* \*\*\* D5III6 B-IP-66 LUNAR ORB LO+F#80MM B&\* NONE 228K 2R58000 201 7+2 17 -,\*\*

  CAM-NAD+\* 2+5IN 72\*I3E SHING\* 30\* PHASE\* 70\* EMIS\*ANG\*\* 8\* CAM-RAD\*\* 1967\*2 kM\* SUN A2M\* 88\*9

  S\* W\* PART OF LAC 63 NEPER\*SCHUBERT\*\*\*SHYTHI ; N\* W\* PART OF LAC 81 ANSGARIUS, & LAC 62 M\*\*UNDARUM, S\*CRISIUM
- L I 1 27° 1°54N 69°77E 31°0°° 0°° 084845 8°19°66 EUNAR ORB HI° 610MM BGN -- NONE 228K 373770 207 5°7 17 -.0°° Camanadam 2°50N 70°12E 3wingm 26° Phasem 70° Emis-Angam 6°° Camaradam 1967°2 km° sun azmm 89°0 5° 6° Part of Lac 62 m\*Undarum,5°crisium 6 5°° 4°° Part of Lac 43 neper.5chubert.N°5MYTH1
- L I 29° 1.58N 61.41E 35 \*\*\* \*\*\* 231835 8-19-66 LUNAR ORB HI. 610MM 86% " NONE 231K 378689 206 7.8 16 ",\*\*

  CAM.NAD. 2.52N 61.88E Swing 25. Phase 70. Emis.Ang. 9. Cam.Rad. 1970.2 km. Sun Azm 88.9

  5. E. Part of Lac 62 M.Uni .Rum.Sucrisium
- L I 2 29 I-58N 61-42E 35 \*\*\* \*\*\* 231835 8-19-64 LUNAR ORB LU-F¤BOMM R6W NONE 231K 2887500 206 7.8 16 -.\*\*
  CAM-NAD-# 2-52N 61-89E SWING= 25. PHASE= 70. EHIS-ANG-# 9. CAM-RAD-# 1970-2 KM. SUN AZM# 88-9
  SOUTHERN PART OF LAC 62 M-UNDARUM-5-CRISIUM 6 NORTHERN PART OF LAC AN LANGRENUS-M-FERT.
- L 1 2 31 2.54N 47.96F 39 ... ... ... ... 134659 8-20-66 LUNAR ORB LO.F=80MM B&W -- NONE 243K 3037500 234 11.0 10 -... CAM.NAD.\*\* 3.44N 49.24E SWINGE 53. PHASE\* 70. EHIS.ANG.\*\* 13. CAM.RAD.\*\* 1982.2 KH. SUN AZH\*\* 88.9 SOUTHERH PART OF LAC 61 TARUNTIUS.LYELL : NORTHERN PART OF LAC 79 COLOMBO,NE & LAC 62 M.UNDARUM.S.CRISTUM
- L L 2 32° X-15N 49+95E 39 ••• ••• 134733 8-20-66 LUNAR ORB LO-FRROMM BGW -- NONE 238K 29750ND 227 9-9 12 --65 CAM-NAD-R 3-38N 50-96E SWINGR 46- PHASER 70- EMIS-ANG-R LI- CAM-RAD-R 1977-2 KM- SUN AZMR 88-9 5- E- PART OF LAC 61 TARUNTIUS-LYELL | LAC 62 M-UNDARUM-5-CRISIUM & LAC 79 COLOMBO.NF
- L E 2 33° U+77N 56-83E 39 ++\* ++\* 134932 8-20-66 LUNAR URB LO-F#80HH BGA -- NONE 224K 2800HBU 1A9 8+0 18 ---+\* Cam-Nad-# 1+8UN 57-8UE SWING# 7+ PHASE# 70+ EHIS+ANG+\* 9+ CAM-RAD-# 1963+2 KM+ 5UN AZM# 88+7 SOUTHERN PART OF LAC 62 H=UNDARUH+S+CRISIUH 6 NURTHERN PART OF LAC AR LANGRENUS-M-FERT+
- L 1 2 34° 4°46N 58°30E 39° 4°8° 8°8° 134957 8°20°66 LUNAR ORD LO°F¤80MM 86% NONE 222K 2775000 179 8°2 20 °°71 Cah:Had:= 1°52H 58°29E Shings 358° Phase= 70° EMIS\*ANG\*= 9° Cam\*Rad\*= 1961°2 KH° SUN AZH# 88°6 SGUTHEHN PART OF LAC 62 M°UNDARUH,S°CRISIUM & NORTHERN PART OF LAC AD LANGRENUS,M°FFRT.

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			OLIGHA BY TO THE	PAGE 142
HIS MAG FR.PHUTU PRIN.PT. ORE Slun Rull OR LAT. # # # HAIN LUNG. #	TIMES-HR H SEC (F=ESTIMATED)	SENSOR Type	FILM-EXPOSURE ALT AND FILTER TUD: H=1 K=1	I SCALE AT TILI SUN SIDE. E PRIN. AZ ANG. ANG. FAD. N.MI PI. FR. LAP KM. VERI S. S
L 4 1 39 14.905 69.88E 9 CAM.NAD. # 14.395 69.36E LAC BU LANGRENUS, 1 LAC 81 AN	271NUM 1204 PHINE	AE FRISIANC	CAN DAD	5K 4500000 135 +5 26 -+45 4+2 KM+ SUN AZM+ 82+2 6 LAC 62 M.UNDARUH,S.C
L 4	**************************************	JNAR UR <sup>b</sup> HI. 610HM 61. Emis.ang.= 2	Bow " None 2740 • CAM-RAD-= 4479	OK 4491803 245 .9 2738
L 4 & 46 i4.815 63.41E 10 Lam.H4D.= i4.405 62.75E Eastern Part uf Lac 80 Langhen	>W!NG= 307. PHASE=	65. FMIS.ANG. 1	A CAMADADA 448	3K 4496721 122 •5 26 ••39 Z•2 KM• SUN AZM= 82•3 N PART OF LAC 62 M•UNDARUM,S•
€ 4 1 47° 13°32H 62°36E 10 CAN°HAD° 13°88H 64°93E CENTRAL PART UF LAC 62 M°UNDA	⊃NING= 71. PHASE#	AL EMISSANG. = 4	• CAM-DAD- 4477	7.7 FM. SIN A74- 0E.D
LAC 115 FURNERIUS ; ₩>1/2 MOU	># LNG= 297. PHASE=	78. FHIS.ANC. # 12	- FAM-DAD - GRAS	'-9 Wh. COM 4-W- 44 -
L 4 1 S3 14.825 56.82E 11 Cam.Had.= 14.415 56.14E Westehn Part up lac bu langren	SWINGE 109. PUISCE	AA. FHIC. No 1	and the state	
L 4 I 54 I3-59N 56-70E II LAM-NAD-# I3-89N 58-29E WESTERN PART OF LAC 62 M-UNUAR	SWING= 74. PHASE= UM.S.CHISIUM 1 CENTR	NAR ORB HI. 610HM 62. EHIS.ANG.= 3 AL PART OF LAC 44	R&W " NONE 2737 • CAM•RAD•= 4476 CLEDMEDES• & N. W•	'K 4486885 259 1+0 2636 -2 km
II 396.66 NVB.LI #.04H. S P.J 395.66 NVB.LI #.04H.MAJ 3VITAJJN DEUANDBU	*** *** 053333 5-14-67 LU Swing= 74. PHASE=	NAR ORR LO.F. 80MM	86# = NONE 2737 • CAM+RAD+# 4476	7K 342125BD 259   1+D 2674 5+2 KM+ SUN AZH= 96+2
L 4 2 59+ 41+755 55+05E 12 CAM+4AD+= 42+115 46+79E LAC 114 MHELTA+JA 1 4>1/2 MUO	SWINGE 287. PHASES	78 ENIS No - 10	CAM DAD 2712	. 3
L 4 1 60 13.585 48.79F 12	*** *** 170326 5-14-67 LU Shinge 145. PHASE	NAR URB HI. SIDMM	86% - NONE 2739	3K 4488525 319 .7 2351
LAC OI TAMUNTIUS,LYELL LAC OI TAMUNTIUS,LYELL	~#146m 134 FHA36m	67. EMIDEANG. # 3	a (AMaRADa∞ αυ75	ing KKA SIIN AZME OLEG

The state of the s

510		LL U	R LAT		ĸ		H SEC	-	MERA-LENS OR Sensor Type	FILH-E	EXPUSURE AND FILTER	A	IN. , PT.	ILT SUN Z AHG. ANG. FR. VERT	
٤ ،	CAN	1 . N A U . 2	12 - FIAM	5 • ] 4 t		2 # I NG #	>3.	PHASE= 66	R ORB LO.F=BON EMIS.ANG.=	3.	CAHARADA	UUDBAD VMA	C I	166 A - M - OU - T	
L 4	CAM	1 + N A D + =	J4.035	97 • 5 Z E		>#ING=	269.	PH454 = 113	R ORB HI. 61D, EMIS-ANG.= I LA	361.	CAMARAR	7530 3 40	~.		
L 4	i i Can	185 1-140-=	35+275 34+055	69.30E 97.52E	33	sas sass	013036 269.	5-25-67 LUNA PHASE= 113	R URB HI. 610h	IM 8&# 30•</td><td></td><td></td><td></td><td>58 6.6 7 UN 47M#27549</td><td>_</td></tr></tbody></table>					

TOTAL PHOTOS IN THIS GROUP = 27

THESE THE STHBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: . . . DEGRADED PHOTOS. . . . . ALMOST UNUSABLE PHOTOS. TILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZY & VERTICAL TO CAMERA AXIS [-}.(+).(), OR(Q) = NO INFO W = APPROXIMATELY NEXT TO MAGN, BERRACKET MOUNTED; G CAM. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. & SUPER WIDE ANGLE LENST EKTREEKTAR 2.8 LENST HSB# HASSELBLAD: HAUR# MAURER: ZP.ZB.ZS = ZEISS LENSIPLANAR, BIOGEN, SONAR); FOCAL LENGTH(HM) & MAX.F-OPENING to. AS EXPOS SPEED . I/IOUG FOR .\* TWO ZEROS) FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF BIXXX ON ORIGINES. AT PP IF ALT NOT O.D

MIS MAG FR.PHOTO PRIN.PT. URB GET GHT H-DA-YR CAMERALLENS OR SION HOLL OR LAT. # TIMES-HR M SEC FILMUEXPOSURE ALTI SCALE AT TILT SUN SIDE. SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FHD. MIAM LUNG. [ =ESTIMATED] TYPE M=N+HI PT. rR. LAP K=KH. VERT 2 5 1-88N 84-00E 26 \*\*\* \*\*\* 144250 8=18-66 LUNAR ORB LO.F=80HM 86W - NONE 218K 2725000 292 5-4 22 CAM-NAD-= 1-62N 84-63E Swing= 99. PHASE= 63. EHIS-ANG.= 6. CAM-RAD-= 1957-2 KM. SUN AZM= 89-1 8. 8 L 1 2 S. E. PART OF LAC 63 NEPER. SCHUBERT. N. SMYTH! 6 N. E. PART OF LAC AT ANSGARIUS. W.M. SMYTH! 6 1.75N 84.5BE 26 ... + +... 144300 8-18-66 LUNAR ORB LO.F.BOMM BOW CAM-NAD-= 1-52N 85-14E SWING= 100- PHASE= 63- EMIS-ANG-= 5- CAM-RAD-= 1957-Z KM- SUN AZM= 89-1 " NONE 218K 2725000 293 4.8 22 So E. PART OF LAC 63 NEPER. SCHUBERT, N. SMYTHI & N. E. PART OF LAC AT ANSGARIUS, W. H. SMYTHI L 1 2 7 1+63N 85+16E 26 \*\*\* \*\*\* 144310 8-18-66 LUNAR ORB LO.F=80HM BG# - NONE 217K 2712500 294 4+3 23 CAM-MAD. 1.41N 85.65E SWING 102. PHASE 63. EMIS.ANG. S. S. E. PART OF LAC 63 NEPER. SCHUBERT. N. SMYTHI CAM-RAD .= 1956.2 KM. SUN AZM# 87.1 6 N. E. PART OF LAC BI ANSGARTUS.W.H.SMYTHI 8 1.51N 85.73E 26 ... ... 144320 8-18-66 LUNAR URB LU.F#80MM BGW CAM-NAD-# 1-30N 86-16E SWING# 103. PHASE# 63. EMIS-ANG.# 4. \* NONE 216K 2700000 296 318 23 S. E. PART UF LAC 63 NEPER, SCHUBERT N. SHYTHI G N. E. PART OF LAC BE ANSGARIUS, W. H. SHYTHI CAM+RAD+# 1955+2 KM+ 5UN AZM# 89+D L I 2 9 1.38N 86.31E 26 ... ... 144329 8-18-66 LUNAR ORB LO.F. 80MM F&A CAM-HAD-# 1-19N 86-67E SWING# 106- PHASE# 63- EMIS-ANG-# "-- NONE 215K 2687500 298 3.3 24 5. 2. PART UP LAC 63 NEPER, SCHUBERT, N. SHYTHI CAM-RAD+# 1954+2 KH+ SUN AZH# 89+0 6 N. E. PART OF LAC 81 ANSGARIUS, W.M. SHYTHI £ 1 2 10 1.26N 86.25E 26 000 0000 144339 8-18-66 LUNAR ORB LU.F≈80MM 86W CAM-NAD-= 1-UBN 87-18E SWING= 109- PHASE= 63- EMIS-ANG.= 3-NONE 215K 2687500 301 2.8 25 S. E. PART OF LAC 63 NEPER, SCHUBERT, N. SMYTHI CAM+RAD+= 1954+2 KM+ SUN AZM= 88+9 6 N. E. PART OF LAC AT ANSGARIUS, W.M. SHYTHI L 1 2 11 1-14N 87+45E 26 \*\*\* \*\*\* 144349 8-18-66 LUNAR ORB LO+F=80MM 86W CAM-NAD-# .97N 87.68E SWING# 113. PHASE# 63. EMIS-ANG.# 3. CAM-RAD-# 1953.2 KM. SUN AZM# 88.9 \* NONE 214K 2675000 305 2.3 25 -.8A S. L. PART OF LAC 63 NEPER, SCHUBERT . N. SMYTHI I No E. PART OF LAC BE ANSGARIUS, & S. W. PART OF LAC 64 NE. SMYTHIE H E 1 2 10 10 10 88 02€ 26 000 0000 144359 8-18-66 EUNAR ORB EO F#BOMM BOW LAM-NAD-= .86N 88-19E SWING= 119. PHASE= 63. EMIS-ANG.# 2. CAM-RAD-# 1953-Z RH. SUN AZM# 68-8 " NONE 214K 2675000 312 1.9 26 -.88 S. E. PART UF LAC 63 NEPER, SCHUBERT, N. SMYTHI : N. E. PART OF LAC 81 ANSGARIUS. G. S. W. PART OF LAC 64 NE. SMYTHIL H 

CAH+NAD+# +75N H8+70E SHING= 130+ PHASE# 63+ EHIS+ANG+# 2+ CAM+RAD+# 1952+2 KM+ SUN AZM= 88+9

5. E. PART UF LAC 63 NEPER-SCHUBERT. H. SHYTHI : N. E. PART OF LAC 81 ANSGARIUS. 6 LAC 64 NE-SHYTHII HERTZ

LAC 82 SE M . SMTTH : WIN HOUNS SPHERE : LAC 64 NE . SHYTHII : LAC 63 NEPER . SCHUBERT . N . SHYTHI

& LAC 65 GUYOT KING

																	1 4 4 5	. 175
	,	Ħ	# A L I	NI.	FONG	•	(1=£S11	HATEDI			TYPE		EXPOSURE AND FILTE	K#KM M#N•	PRIN. MI PT.	ĄZ	ANG. ANG.	F#D.
												-~~ D7	- NO: CAM+RAD+= NE+SMYTHIT	*	92 %F M %	MYTH	T DACTEIID	88
		CAN. 5. E.	IS* NAD*= PART	nt [1	89.73E 89.72 10 63 NE	26 FER , S	SWING= CHUBERT,	144428 176. N.Shythi	8-18-66 PHASE:	LUNAR 63. 40 81 A	ORB LO,F=80 Emis•ang.= NSgarius, ;	MM B&W l. Lac 64	- NOI CAM-RAD-= NE-SHYTHII	4E 212K 1951 • .	2650000 2 KM• 82 Se•M.S	O SUN Myth:	.9 27 AZM# 88.7	89
	1	2 · CAH+1 5 · W ·	16* HAD+= PARI	0.52N 12P UF LA	90+30E 90+22 IC 64 NE	26 E • Shy Ti	**** #DN1WS THJH 111	144438 206• Z	8-18-66 Phase: I La	LUNAR 63. Calai	ORB LO.F=80 Emis.ang.# Nsgarius, i	MM 864 1. Lac 63	- NOI CAM+RAD+# NEPER.SCHUS	VE 212K 1951•: LERT.N 6	2650000 2 KH. LAC B2	38 SUN Se.M.	1.0 28 AyM# 88.6	-,87 ST
	1	CAMel Se al	I7 NaD•# • Part	416. 416. UF L	90.86E 70.72 AC 64 N	26 ( E E • 5HY)	5WING=	144448 226. N. si.	8#18-66 PHASE PART OF	LUNAR ( 63. Lac 82	ORB LO.F=80 EMIS+ANG.= SE-M-SMYTH	HM B&W l. I LAC	= NON CAM•RAD•= 81 ANSGARIUS	JE 211K 1950*:	2637500 2 KM+ (7 & LAC	58 SUN 43 6	1+4 28 AZH= BR+5	+,88
		CAH+	IB HAD## • PART	+20N	91+43E 91+23 AC 64 N	26 ( E E • SHY)	SWING=	144458 237. N. W.	8-18-66 PHASE= Part of	LUNAR ( 63. LAC 82	)RB LO.F=800 EMIS-ANG.= Se.M.SMYIM	1H B&W 2. LAC	- NON CAM•RAD•= Blansgarius	E 211K	2637500 ! KM+	7ŋ SUN 43 N	1.8 29 AZM= 88.5	+,87
L	i	~	25 (AD a #	1 = 23N 2 = 49N	76+16E	28 4 -	SelMG-	215625	8-18-66	LUNAR (		1M 86W	T OF LAC AL	E 227K	2837500	191	9.8 17	
			26* IAD • =	1 • 62N 2 • 51N	71•77E 72•13( 5• *•	` 30 • E Pari	+° ++++ 5wing≈ of lac	051116 20. 63 NEP	8-19-66 PHASE ER:SCHUBE	LUNAR U 70. RI.N.SM	RB HI. 610P Emis.ang.= Thi	8. 14 Ben	~ NON Camerade=	E 228K 1967•2	373770 KM+	20 I SUN	7+2 17 AZM= 88+9	
													T NON CAM+RAD+= SGARIUS+ 6					
	,	I CAH+N	27* AD•= 5+ (	1 = 84N - 2 = 50H E = PAR	69.77E 70.126 7 UF L/	31 • C 62	** **** Swing* M*Urdaru	084845 26. M.S.CKI	8-19-66 ( PHA5E= Sjum	LUNAR U 70.	RB HI. 610M Emis.ang.# & S.	M B&W 6. W. PART	" NON CAM+RAD+" OF LAC 63	E 228K 1967.2 Neper.s	373770 KM+ CHUBERT.N	207 SUN . SMY	5•7 ]7 AZM= 89•0 Tui	
	⇒•	• L. P	27 AD+# AR! uf	1+64N 2+5un F Lac	69+17E 70+12E 62 H.Ui	31 • : 	S*CKISI	26. 26. Um ;	8-19-66   PHASE = S. #.	LUNAR O 70. Part o	RB LU•F≈80M EMIS•ANG•= F LAC 63 N	M B&W 6. £PER,Sch	- NON! CAM+RAD+= IUBERT,N+SHY	E 228K 1967•2 Th 1 LAC	2850000 KH. AO LANGR	Zn7 Sun , Enus	5.7 17 LyH= 89.0	. N
L	2	LAM-N	46 8	9.945   H.776	160.54E	97 •		045865	11-25-66 [	UNAR O	RB LD.F*BOM	H 86#	" NONI CAM+RAD+= RT.N.SHYTHT	1519k	189875nn	218	- 3 70	

L 4 2 9 41.795 96.20E 6 ... 6.00 162638 5-11-67 LUNAR ORB LU.F=80MH B&W CAM-NAD .= 42.025 86.28E SWING= 289. PHASE= 76. EHIS-ANG.= 12. - NONE 2989K 37362500 91 4.2 25 -... LAC 116 N.AUSTRAL 1 W>1/2 MOUN SPHERE ; LUMAN E. HEM: SPHE ; LAC 140 SCHRODINGER CAM+RAD+# 4728+2 KM+ SUN A7M# 65+1 & CAC AS NEPER SCHURER

6 LAC 62 M. UNDAPUM. S.C.

																												LHAE	1 78
	æ		ti	H B	AIN	LA	L.	ONG.		( = 1 H	ESTI ESTI	N N SE Mateuj	.c		CA	SEI Ti	NSOR YPE			A	ND FI		TUDE M=N.	PI HI	PT.	ĄZ	ANG. FR.	ANG.	LAP
		LAt		> M.	A 0.2 I	KAL	A >	/2	MQ 011	SPH	F KE	: LUN	AH E	. HEH	15PHE	1 L	AC 14	0 ScH	RODING	ER	- AH•RA	(U + m	2986 <sub>K</sub> 4725•	2 KM	•	SUN	AzHe	45.4	
	١	LAC	116	М.	AUST	KAL I	⊌> <b>1</b>	/2	HOON	5PH	FKE	. LUN	AH E	PHAS Heh	ISPHE	E E	115+A1 10 146	NG.= D SCHI	12. Ruding	ER C	AH + RA	/D • =	2984k 4723+	2 KH		SUN	AZH*	65.6	
	•	L	CAM. AC 6	RAD IN P	- 1. - 5M	3 - 8 9 N	HERT	45E	•	Sw	ING.	17245 104. LAC 4	7 5 6 J0	-11-6   PHASI   LIOT	7 LUNA E= 60 Maxnel	R QRE • EM L	HI.	610MI  G+=   Lac	1 86W 2. : 63 Ni	C/ FPFR	AM.RA Schu	NONE	2739K 4478•	449 2 KH	70164	290 SUN	47 AZH=	29 97•5	<b>-43</b>
	L '	L	EAH. AL 6	HAD:	# 14 # 5M	1 1 H I I 1 • 17 4 W • 9 3 W	90.4 91. HERT	7E 46E 2	6	Swi	HG=	17300 116. LAC 4	7 S 6 JO	~11-6; PHASE L101 :	7 LUNA E= 60 Maxwel	R ORB • EN L	H1.	610Mi  G•#	1 BGW 2. 3 63 No	C/ EPER:	- LH • R'A • Schu	NONE D•=	274CK 4479.	449 2 KM•	1803	301 SUN	•7 •ZH=	28 97•7	90
•		.AC	CAM. 64	NAD .	MA 14	1.34N 111 ;	91. LAC	49E 49E 46	JUL	Swi	ING= 1 <sub>A</sub> Xue	17302: 134. LL	7 5	~1 ( -67 PHA5E I	7 LUNA! E= 60 Lac 6:	R URB • EM 3 NEP	HI. IS.AN ER.SC	610MH  G.=  HUBER	B&W   Z.   T.N.S	C /   H T Y H	 Merai	NONE D.= Lac 4	2741K 4480. 5 PLUT	449 2 KH• 48cH•	3443	319 5UN	.9 AZH= H2 SE	28 98•2	9n
	-	CE	CAH. NTKA	HAD. L Pa	# 14 R1 (	+355 If L	62. 4C 81	7 E 5 9 E A N S	GARI	Swj	NG=	045932 0. NSTEKI	E S.	-12-67 Phase Rt of	LUNAI 64 LAC	R ORB • EM 99 HU	HI. IS.AN MUOLT	610HH 6.= .GI :	B&W I.	CA 63 N	- M•rai ieper	NONE D•=	2747k 4486+;	450 2 KH•	3279	175 SUN	AZH#	26 81.9	44
	ί,	į Eki	I Lamei Inal	Z84 NAD. Pak	# 13	34N +94N LAC	81.8 84. 63	BE B3E Nepe	7 • R.SC	H <sub>N</sub> BF ZMI	.NG= .RT.N	053040 73• •Smyth	) 5· {1	-12+67 Phase I	LUNAE = 59. Eastee	R ORB • EH RN PA	HI. IS.AN RT DF	HHGIA =. D LAC	86₩ 5• 45 PL	CA UTAR	- M-RA(	NONE	2740K 4479•;	449 • KH •	1883 01115	258 SUN	1 • 9 AZM= '	26 96•3	-,15
ı	ני	E ()	CAM.	NAD.	= 14 GAT1	715 •415 VE	76.5	9Ε 97 <sub>ε</sub> 1 L	* B B DA	IWS IWA Na l	••• NG≖ SGAK	170039 302. 1 <sup>0</sup> 5,4.	, H . SI	-12-67 PHASE 11 WE	LUNAF = 64. STERN	R ORB EM Part	HI. IS.AN Of	610MM G.# Lac 9	864 1. 9 Huma	CA LTLOLT	- M.RA( Glen	NGNE D.=	2746K 4465.2	450 ! KH.	1639	116 SUN	.4 AZM=	26 82.1	
	ט	£ Gr	LAM • I	95% 1904 1904	13. 11Ad	•88N •88N •3N	76+7 78+	1 E 20E 1 L	• B 6 JA	SWI 3 NE	··· NG= PER,	173116 74. Schube	5- RT.N	12-67 PHASE 1 06	LUNAR = 61. STERN	ORB EM Part	H1. 15.AN Of	610MH G.= LAC 4	B6W 2. 5 Piut	CA ARCH	- H+RAC #HAH	NONE D•=	2740K 4479.2 N. W.	449 ! KM. PART	1803 De	260 SUN	.9 AZH= 1	27 96•7	+,35
	. 1	ć	c . AH a i	. GA	13. 13. 13.	64N • 84N AUED	76.7 78.2 NEGA	11 V E 16 E 16 E	8 •	S'n L	494 NG#	173 <u>11</u> 7 74.	5-	12-67 PHASE 6 L	LUNAR 61. AC 63	ORB EMI Nepe	LO.F IS.AN	≖BOMM G•= ; Uhert	B&W 2. N.Smy	CA Thi	- M.RAS	None D.m	2740K 4479•2	3425 KH.	0000	260 SUN	.9 Azm# 9	27 76+7	76
i.	. 4 L:	A C	AH • N	39 AD+ ANG	4600 # 14 #4*	¥U\$ •395 5, ;	69.86 69.3 LAC	36 36 81 /	9 • NSG	S#1 ARIU	***   NG= . 5   1	050052 320. Lac	5 <b>+</b> 98 P	13-67 PHASE ETAVI	LUNAR # 65. US:H I	ORB EHI LAC	HI. (	 	86#  -  -	CAI BS	- M • R A D	NONE 	2745K 4484•2	4500 KM+ &	DOOB LAC	135 SUN 62	•5 AZH= 8 4•UNĐā	26  2+2  FUH.5	-,45 5.c

L 4 1 405 13.28N 70.20E 9 ... 9.00 053159 5-13-67 LUNAR URB HI. 610MM B6W \* NONE 2740K 4491893 245 CAN-RAD. # 13.96N 71.57E Swings 59. PHASE 61. EMIS.ANG. 2. .9 27 -.38 CAH-RAD-# 4479+2 KH- SUN AZH# 96+4 DEGRADED NEGALIVE I LAC 63 NEPER.SCHUBERT.N.SMYTHI! LAC 62 M.UNDARUM.S.CRISIUM 6 LAC 45 PLUTARCH.HAM

\$10	N RULL OR	LAT. N	GET GMT TIMES-HR M SEC (!=ESTIMATED)		SENSOR	AND EILTER	TUDE PRIN. Men.MI PT.	FILT SUN SIDE.  AZ ANG. ANG. FWD.  FR. LAP  V.51 R. R
L 4	CAM+NAD+= 13+	90N 71+57E	*** **** 053159 5wing= 59*	PHASE 61.	EMIS.ANG.#	Z+ CAM+RAD+#	2740K 34250000 4479•2 KM•	245 .9 2778 SUN AZM= 96.4
	-CAM+NAD++ JJ-	96N 112.70E	5#{NG= 282.	PHASE= 109.	FHIS ANG .= 3:	B&W - NONE 3. CAM·RAD·# BOLTIANUM	7224.2 ***	290 7.6 14 SUN AZM#259.9 63 NEPER.SCHUBER
į 4	CAMENADER 33.	785 IU4+14E	341HG= 275.	PHASES 112.	FHIS.ANG. # 2	B&W - NONE 3. CAM.RAD.# 63 NEPER.SCHUBERT.N	JEJE . P PH.	264 5+3 2 -+*c SUN AZH#Z71+9 99 HUHBOLT+GIBB
	CADSHADS SAS	UJS 97.52E	>41NG= 269.	PHASE= 113.	FM15 a NG a B 31	B&W - NONE D+ CAM+RAD+= 62 M+UNDARUM+S+CRIS	75 20 . 3 PM.	259 6.6 7 SUN AZM#275.8 63 NEPER.SCHUBE
ر 4	1 185 35.2	75 69.30E 33	*** **** 013836	5-25-67 IUNER	ORR HI. ALDHH	RAB - None	679n# 9#919n3	258 444 7 = 90

Swings 269. Phases 113. Enis.ang. 30. CAM.RAD. 7529.2 KM. Sun AZM. 275.9

1 WIVE HOOMS SPHERE 1 LAC 62 H. UNDARUH, S. CRISTUM & LAC 63 NEPER. SCHUBE

TOTAL PHOTOS IN THIS GROUP # 38

LAC 115 FURNERIUS, OKEN

CAH-NAD-# 34-055 97-52E

64

THESE THU SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • = DEGRADED PHOTOS, \$ = ALMOST UNUSABLE PHOTOS,

TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) 6 VERTICAL TO CAMERA AXIS

(-),(0),(), 0), 0), 00, 00; = NO INFO == APPROXIMATELY NEXT TO MAGN, B=BRACKET MOUNTED; G= CAM, ON GROUND

CAMERA-LENS AS FOLLOWS: SW.A. = SUPER WIDE ANGLE LENS: EKTR=EKTAR Z.8 LENS:

HSB= HASSELBLAD: MAURE MAURER: ZP.ZB.ZS = ZEISS LENSIPLANAR.BIOGEN,SONAR): FOCAL LENGTH(HM) & MAX.F=OPENING

iv. AS EXPOS SPEED = I/IODU (OR == TWO ZEROS)

FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG.NEG. AT PP IF ALT NOT O.O

ALTI SCALE AT TILT SUN SIDE. GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE MIS HAG FRIPHOTO PRINIPT. URB AND FILTER TUDE PRIN. AZ ANG. ANG. F#D. SFN5OR TIMES-HR M SEC SION HULL OR LATE # rR. LAP M=N+M1 PT. TYPF ( =ESTIMATED) MAIN LUNG. 8. 8 VERT KBKM.

- L 1 2 11 1-14N 87-45E 26 \*\*\* \*\*\* 144349 8-18-66 LUNAR ORB LO-F#80MM R6W " NONE 214K 2675000 305 2\*3 25 --8 Carl-Nad. -- 47N 87-68E Swing= 113\* Phase= 63\* Emis-ang.# 3\* Cam-rad.# 1953\*2 km\* sun azm= 88\*9 5\* & Pari uf Lac 63 heper.5chubert.n.smyth1 1 n. e. Part of Lac 81 ansgarius. 6 s. W. Part of Lac 64 ne-5myth11 m

- L I 2 14° 0.77N 89°16E 26 °°° °°° 144419 8-18-66 LUNAR ORB LOSFEBOUM 86% "NONE 213K 2662500 340 1°1 27 "°88"
  CAM-NAD-# 64N 89°21E SWING# 148° PHASE# 63° EMIS-ANG-# 1° CAM-RAD-# 1952-2 KM- SUN AZM# 88°7
  5° E. PART OF LAC 63 NEPER-SCHUBERT,N-SMYTHI ; LAC 81 ANSGARIUS, ; LAC 64 NE-SMYTHI1 6 LAC 82 SE-M-SMYTHI-PASTEUR

- L 1 2 18 U-27N Y1-43E 26 \*\*\* \*\*\*\* 1445B 8=18=66 LUNAR ORB LO.F=80MM 86\* T NONE 211K 2637500 70 1-8 29 \*\*\*\* 87 CAM-NAD-= 42N 91-23E SHING= 237\* PHASE= 63\* EMIS-ANG-= 2\* CAM-RID-= 1950-2 KM\* SUN AZM= 88\*5 5\* W\* PART OF LAC 64 NE-SMYTHIT; No No PART OF LAC 82 SE\*\*M\*SMYTH; LAC 83 ANSGARIUS\*\*\*\*M\*SMYT & LAC 63 NEPER\*\*SCHUBER

HIS HAG FRIPHOID PRINOPTOURB GET GHT MODAMYR CAMERAMLENS OR FILM-EXPOSURE ALTI SCALE AT TIL T SUN SIDE.

SION HULL OR LATO H TIMESMHEM SEC SENSOR AND FILTER TUDE PRINO AZ ANGO ANGO FNDO

H H HAIN LONGO (IMESTIMATED) TYPE MOMENOM PTO BOOK OVERT SOME

- L | 4 20 0.03N 72.57E 26 000 0000 144517 B-18-66 LUNAR ORB LO.F.#80MM B&W NONE 211K 2637500 B2 207 30 -087

  CAM-NAD-- 0J2S 72.24E SWINGE 2990 PHASE- 630 EM15.\*ANG.- 30 CAM-RAD-= 195002 KM0 SUN AZM- 8803

  So no Pari of lac 64 Neosmythic hertz : No no Pari of Lac 82 Sechosmyth & No e0 Pari of Lac 81 Ansgarius.\*
- E I 2 22° 1°175 98°13E 26°°°°° 4°°° 194653 8°18°66 LUNAR ORB LO°F¤BGMM B6W ° NONE 21DK 2625NDD 95 7°7 36 °°87 Cam°nad°° 1°195 97°20E Swing= 262° Phase\* 63° Emis«ang«\* 9° Cam°rad°° 1949°2 km° Sun azm« 87°3 Nonthen Part of Lac B2 se°m°smythi°pasteur & Sduthern Part of Lac A4 ne°smythii hertz

- L 2 2 196 8-945 100-54E 97 88\* 888 045805 11-25-66 LUNAR ORB LO.F.#80HH B6W NONE 1519K 18987500 218 +3 20 -488

  CAM-NAD-= 8-775 100-68E SWING= 216- PHASE= 70- EMIS-ANG-= 1- CAM-RAD-= 3258-2 KM- SUN AZM-272-8

  LAC 82 51-N-5MYTH | W1/4 100NS 5PHERE | LAC 64 NE-SMYTHII | LAC 63 NEPER-SCHUBERT-N-SMYTH| 6 LAC 65 GUYOT KING
- L 4 1 17 14-24N 96-44E 6 000 0000 [72957 5=11=67 LUNAR ORB HI 6 60MM B&W = NONE 2739K 4490[64 290 07 29 = 43 CAM-NAD-= 13-69N 91-45E 5WING= 1040 PHASE= 600 EMIS-ANG-= 20 CAM-NAD-= 4478-2 KM+ SUN AZM= 97-5 LAC 64 NE-5MYTHIE HENTZ : LAC 46 JULIOT MAXWELL : LAC 63 NEPER-SCHUBERT-N-SMYTHI 6 LAC 45 PLUTARCH-MAH
- L 4 2 17 14 25N 90 44E 6 000 0000 172957 5-11-67 LUNAR ORB LO FRBOHM BOW NONE 2739K 34237500 290 07 28 84

  CAM NAD = 13 89N 91 45E SHINGE 1040 PHASE 600 EMIS ANG = 20 CAM RAD = 4478 2 KM0 SUN AZM 97 05

  LAC 64 NE 5HYIMII : WI/4 MOONS SPHERE : LAC 115 FURNERIUS : LAC 80 LANGRENUS + FERT 0 6 LAC 101 TS10LKOVSKY
- L 4 & 14.63N YU.47E 6 \*\*\* \*\*\* 173037 5-11-67 LUNAR ORB HI. 610MM B6W NONE 2740K 4491803 301 .7 28 --.90

  Can.Nad. 14.04W 91.46E 571NG# 16. PHASE# 60. EMIS.ANG.# 2. CAM.RAD.# 4479.2 KM. SUN AZM# 97.7

  LAC 64 NE.SUYIHII HERTZ I LAC 46 JULIOT MAXWELL I LAC 63 NEPER.SCHUBERT.N.SMYTHI & LAC 45 PLUTARCH.HAH
- L 4 2 199 15-03N 90-51E 6 ++4 ++4 ++4 173017 5-11-67 LUNAR ORB LO-F=BOMM B&W NONE 2740K 34250000 312 +8 28 -- 3

  CAN-CHAD-= 14-19N 91-48E SWING= 126- PHASE= 60- EHIS-ANG== 2- CAM-RAD-= 4479-2 KM+ SUN AZM= 98-0

  DEGRADED NEGATIVE: LAC 64 NE-SMYTHII: WI/4 HOONS SPHERE: LAC 81 ANSGARIUS, W-M-SMYTHI & LAC 129 M-AUSTRALE, L

LAC 28 GAUSS, MESS : WITH MOONS SPHERE : LAC 14 ENDYMION, S : LAC 15 M. HUMBOLTIANUM

& LAC 63 NEPER, SCHUBER

SION		FR,PHUTU PI UR LAT Main #	P	# TIMES-HR	H SEC		ERA-LENS OR Sensor Type		ALTI SCALE AT TUDE PRIN. MON.MI PT. KEKHO	AZ ANG. ANG.	
	- A114	12 PDD 11	77,536		744.	PHASE AT.	FMISTANCE C	B&W - NONE • CAM-RAD.= E FARSIDE:NANSEN.#3		******	
٤4	2 CAM+I	535 14.815 NAD+# 14.415	56.82E 56.14E	Swines	05u229 308•	5-14-67 LUNAR Phase= 66. 14 Cleomedes, ;	URB LO.F=80HH	BEN - NONE • CAM+RAD+=	2740K 34250000 4479•2 KH• & LAC	122 +5 25 SUN AZH= 82.4	-,56
	CAM	440 = 33 - 96N	112.70E	SWING=	282.	5-23-67 LUNAR PHASE= 109.	EHIS+ANG.= 33	· CAM+RAD · ·	5487K 8995082 7226+2 KH+		-,••

FOTAL PHOTOS IN THIS GROUP # 24

HIS MAG FRAPHOTO PRINAPTA ORB GET GHT H-DA-YR CAMERA-LENS OR FILH .. EXPOSURE ALTI SCALE AT TILI SUN SIDE. SION RULL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FWD. ( =ESTIMATED) TYPE MAIN LUNG. MeN.MI PT. FR. LAP K=KH. VERT 8 . 8

- L 4 2 99° 3.51N 179.9ZE 18 °°° °°° 232421 5-17-67 LUNAR UNB LO.FEBOHH BUW " NONE 6142K 76774999 293 2°4 °° -.°°

  CAM.NAD.= .11N 172.38W SWINGE 294. PHASEE 115. EM:S.ANG.= 11. CAM.RAD.= 7881.2 KM. SUN AZMEZ71.5

  LAC 68 SHAKONUV : W>1/2 MOON SPHERE: LAC 118 JULES VER: LAC 65 GUYOT KING & LAC 18 TIKHOV

TUTAL PHOTOS IN THIS GROUP -

THESE THU SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • = DEGRADED PHOTOS, \$ ALHOST UNUSABLE PHOTOS,

TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

Legar to the structure of the struct

NIS HAG FR:PHOTO PRIN:PT. ORB GET GHT M=DA=YR CAMERA=LENS OR FILH-EXPOSURE ALTI SCALE AT TIL T SION ROLL OR LAT. # TIMES=HR M SEC SENSOR AND FILTER TUDE PRIN: AZ ANG. # # MAIN LONG. (T=LSTIMATED) TYPE M=N:HI PT. FR. K*KM- VERT	ANG. FWD.	VD AP
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- L 1 2 115 2.925 145.26E 69 \*\*\* \*\*\* OUD555 8\*25\*66 LUNAR ORB LO.F#80MM R6W NONE 1381K 1726250D 1D 4-9 19 -.\*\*

  CAM-NAD-# 8.275 144.23E 5WING# 4. PHASE# 70. EH15.ANG.# 12. CAM-RAD-# 3120.2 KM. SUN AZM#272.6

  LAC 84 DELLINGER : LAC 66 MENDELEEV : LAC 48 #.M.MOSCOV : LAC 85 KEELER 6 LAC 67 SPENCER

- L I I I36 5+4us 129+33E 77 \*\*\* \*\*\* 034836 8\*26\*66 LUNAR ORB HI 610HH 86W NONE 1328K 217704° 359 3.5 21 ...\*\*

  LAM\*NAD\*\* 8\*115 129\*35E SWING# 354\* PHASE\* 70\* EMIS\*ANG\*# 6\* CAM\*RAD\*# 3767\*2 KM\* 5UN AZM#273\*7

  EASTERN PART UP LAC 83 LANGEMAK : WESTERN PART OF LAC 84 DELLINGER : LAC 65 GUYOT KING & LAC 66 MENDELEEV
- L 4 i 146° 2079H 136009E 26 \*\*\* \*\*\* 233U25 5-ZI-67 LUNAR ORB HID 610HM B&W NONE 6148K 10078688 25 08 \*\* -.\*\*

  CAM-NAD-= 16N 134086E SWING= 450 PHASE= 1090 EMISOANGOD 40 CAMORADO= 788702 KM+ SUN AZMEZ7107

  LAC 66 MENUELLEV I W1/4 MOUNS SPHERE I LAC 30 E0SZILARD 1 LAC 47 OLCOIT 6 TERMINATOR
- L 4 | 147° 2009 136014E 26 00° 000° 203057 5-21-67 LUNAR ORB HIO 610MH B6W NONE 6149K 10080328 31 07 00 -090 CAM-MADON OUGH 134087E SWINGN 510 PHASEN 1090 EHISOANGON 30 CAMORADON 788807 KM0 SUN AZMOZ7109 LAC 66 MENDELEEV 1 W>1/2 MOON SPHERE; LAC 30 E05/LICARD 1 LAC 47 DECOTT 6 TERMINATOR

PAGE 203

CAH+RAD+# 7888+2 KH=

6 0>1/2 HOON SPHERE

LAC 66 MENDELEEV

SWING= 51.

66

ALTI SCALE AT TIST SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR HIS NAG FRIPHOTO PRINIPT. URB GET GHT M-UA-YR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SENSOR TIMES-HR M SEC UH LAT. LAP HEN-HI PT. FH. TYPE ( #EST | HATED | HAIN LUNG. VERT F . S K=KH. .7 \*\* -.90 E 4 2 1475 2-89N 136-16E 26 \*\*\* \*\*\* 233057 5-21-67 LUNAR ORH LO-F#BOMM B&W NONE 6149K 76862499 31 SUN AZMEZTICH

PHASE= 109. EHIS+ANG+= 3+

1 LAC 66 MENDELEEV

CAM-HAD. - GUN 134-87E

TOTAL PHOTOS IN THIS GROUP # 10

DEGRADED NEGATIVE

LAC 67 SPENCER 61

> S. ALHOST UNUSABLE PHOTOS. THESE THE SYMBOLS NEXT TO HAIN OF PHOTO NUMBER HEAN: . = DEGRADED PHOTOS. TILL ANGLES : AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS (-),(-),( ), ( ), OH(G) = NO INFO = APPRUXINATELY NEXT TO HAGE, B=BRACKET HOUNTED! G= CAM. ON GROUND SW.A. . SUPER WIDE ANGLE LENST EKTWEEKTAR 2.8 LENST CAMERA-LENS AS FOLLOWS: HAURE MAURENT ZP. ZB. 25 .. ZEISS LENS (PLANAR BIOGEN SONAR); FOCAL LENGTHIMM & MAX F-OPENING HSR HASSFLALAD: 100 AS EXPOS SPEED # 1/1000 COR \*\* THO ZERUST FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOHFTERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTOL SCALE IS THE XXX OF LXXXX ON ORIGINES. AT PP IF ALT NOT 0.0

5	# [ON	HAG HULL B	FR.PHUT OR HAIN #	U PR LAT+	IN.PT.	URB # Ĩ €	GLT :HES+HR :=ESTIM	GHT H SEC	H-DA-YR	CAME	RA+LENS OR Sensor Type	FILM-E	XPOSURE AND FILTER	ALT: SCALE AT TUDE PRING AMENGMENT PTG	4.4	FR.	LAP
		CAM.	NAD.= H	.275	144.23E		SWING	4.	PHASE:	70.	ORB LO.F=80M EMIS.ANG.= LAC 85 KEEL	13+	CAM . RAD . =	1381K 17262500 3120+2 KM+ 6 LAC	รมห	AZM=272+6	-,**
Ł		CAR.	NAU • = 7	.545	148 . 62E		241MC=	31.	PHASE	78.	URB LO.F 80M EM15.ANG.# LAC 86 DAED	17.	CAH+RAD+=	1456K 18700000 3175+2 KH+ 6 LAC	SUN	AZH=271+B	ŋ <b>º,</b> =
		LAM.	NAU.= 9	. 925	174+298		SWINGS	202.	PHASE	70.	ORB LU.F=80M EHI5+ANG.= LAC 69 ENGL	1.	CAMARADAM	1455K 181875NO : 3194+2 KH+ & LAC	5 U N	AZH=273+6	
ŧ		(AH.	HADA # 5	4945	172.306	•	5wing=	355.	PHASE	70.	EMIS . ANG . =	31.	CAH+RAD+#	1453K 181625NO 3192+2 KM+ & LAC	SUN	# { H = 100 + 1	
ŧ		LAM.	(igi) = =	• E4	161.266	<u>.</u>	SHING.	64.	PHASE	- 111.	ORB HI. 610H EMIS.ANG.= LAC 48 W.M.	2.	CAM+RAD+=	6151K 10983697 7890+2 KH+	44 SUN	.4 44 AZM=271+1	-,••
ı		C A .4 -	NADAE	- P i 61	141.240		Swince	64.	PHASE	* 111.	EMIS.ANG.=	Z.	CAM+RAD+m	6151K 76887499 7890•2 KM• 6 LAC	2014	# SWESSEL	

TOTAL PHOTOS IN THIS GROUP #

THESE THU SYMBULS NEXT TO MAIN UN PHOTO NUMBER MEAN: • \*\* DEGRADED PHOTOS, \*\*\* ALMOST UNUSABLE PHOTOS,

LILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-),(-),(-), ON(O) \*\* NU INFO \*\*\* APPROXIMATELY NEXT TO MAG#, B\*\* BRACKET MOUNTED; G\*\* CAM\*, ON GROUND

CAMERA-LENS AS FOLLOWS: SW\*\* SUPER WIDE ANGLE LENS! EKTR\*\*EKTAR 2.8 LENS!

HSB\*\* HASSELBLAD: MAUR\*\* MAUREK: ZP\*ZB\*\* ZEISS LENS!PLANAR\*\*BIOGEN\*\*SONAR\*! FOCAL LENGTH(MH) & MAX\*\*F-OPENING

10\*\* AS EXPOS SPEED \*\* 1/10\*\* OUR \*\*\* TWO ZERUS)

FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

COLUMN MEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1/XXX ON ORIG\*\*NEG\*\* AT PP 1F ALT NOT O\*\*\*O

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE H-DA-YR CAMERA-LENS OR GHT HIS MAG FR.PHOTO PRIN.PT. ORB r. F. T AND FILTER TUDE PRIN. AZ ANG. ANG. FHD. SENSOR TIMES-HR M SEC SION ROLL OR LAT. LAP FR. MEN-MI PT. TYPE ( # ESTIMATED) LUNG. MAIN VERT 8. 8 K=KH.

- L 1 2 38 7.905 157.26W 39 \*\*\* \*\*\* [45423 8-20-66 LUNAR ORB LO.F.BOMM BLW NONE 1385K 1731750D 73 3.0 15 -.90
  CAM.NAD.B 8.595 159.54M SWINGE 68. PHASE 7D. EHIS.ANG.B 5. CAM.RAD.B 3124-2 KM. SUN AZMEZ73.7
  LAC 67 KORULLY.DO : LAC 86 DAEDALUS : LAC 68 SHARONOV : LAC 104 ATTKEN.ORLOV 6 LAC 105 MOHOROVICIC
- L 2 1 34 4.71N 173.55E 56 ... 062254 II=19-66 LUNAR ORB H1.610HH B&W NONE 1453K 2381967 4 16.3 19 -... CAM.NAD.= 9.945 172.29E SWING= 355. PHASE= 70. EHIS.ANG.= 31. CAM.RAD.= 3192.2 KH. SUN AZM¤Z68.1 HESTEKN PART OF LAC 68 SHARONOV : S. W. PART OF LAC 50 MORSE 6 N. W. PART OF LAC 86 (AEDALUS
- L 4 1 995 3-51N 179-92E 18 \*\*\* \*\*\* 232421 5-17-67 LUNAR ORB HI: 610HH B6W \*\* HONE 6142K 10068852 293 7:4 \*\* \*\*\* CAM-NAD-\* «11N 172-385 SWING» 294\* PHASE= 115\* EMIS-ANG.\* 114 CAM-RAD\*\* 7881+2 KM\* SUN AZM=Z71\*5 UEGHADED NEGATIVE : LAC 68 SHARONOV : WI/4 MOONS SPHERE : LAC 32 HUTTON 6 LAC 49 E\*M\*MOSCOVIEN
- L 4 2 99° 3.51N 179.92E 18 \*\*\* \*\*\* 232421 5"17~67 LUNAR ORB LO.F#80MM 86% NONE 6142K 76774999 293 2°4 \*\* -.\*\* LAM.NAD.= .11N 172.38H SWING= 294. PHASE= 115. EMIS.ANG.= 11. CAM.RAD.= 7881.2 KM. SUN AZM=271.5 LAC 68 SHAKUHOY 1 W>1/2 MOON SPHEKE 1 LAC 118 JULES VER 1 LAC 65 GUYOT KING & LAC 18 TIKHOY

MIS MAG ER PHUTO PRIN PT. DRA GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. SIUN ROLL OR LAT. H TIMES-HR M SEC AND FILTER TUDE PRING AT ANG. ANG. FAD. SENSOR LUNG. MAIN ( = ESTIMATEDI TYPE M=N.HI FT. FR. LAP K=KM. VERT 8. 8

- L I 2 30 Ju-275 162-70à 37 \*\*\* \*\*\* 0735ù1 8-20-66 LUNAR URB LO-F\*BOMM B&W -- NONE 1299K 16237500 240 2-3 24 -.\*\* Cam-nad-- Y-415 161-18% -- Swing= 235\* -- Phase= 70\* Emis-Ang-= 4\* Cam-rad-= 3036-2 km\* 5un azm=276-2 Lac 87 Kurulev-00 | Lac 105 Muhurovic | Lac 106 Mahiute | Lac 86 Daedalus -- & Lac 86 Cae 8.\*\*
- L 1 2 35 8-725 162-60W 39 800 0000 145281 8020-66 LUNAR ORB LO-FERDMH R&W NONE 1339K 1673750D 343 04 20 --00

  CAM-NAD-= 9-035 162-51W SWINGE 3380 PHASE= 700 EMIS-ANG.= 100 CAM-RAD-= 3078-2 KM SUN A7M=774-8

  LAC 87 KORULEV-DO : LAC 70 Now-HERIZS : LAC 88 S.W.-HERIZS : LAC 106 MAR10TTE & 6 4AC 105 MOHOROVICIC
- L I 2 37 7.985 157.76% 39 \*\*\* \*\*\* 145410 8\*20\*66 LUNAR ORB LO.F#60MM B6W NONE L381K 17267500 72 2.7 15 \*\*.90 CAM:MAD:# 8.635 159.81% SWING# 68: PHASE# 70: EMIS:ANG:# 5: CAM:RAD:# 3120\*2 KM: 5UN AZM#273:8 LAC 87 KURULLY:DU : LAC 86 DAEDALUS : LAC 104 AITKEN:OR : LAC 68 SHARUNOV 6 LAC 69 ENGLEHARDT

- L I 2 39 6.495 149.05% 39 00° 40°0 145831 8-20-66 LUNAR ORB LO.F.#80MH B&W NONE 1451K 18137500 77 7.3 7 -.90

  CAM-NAD-# 7.895 155.17% SWING# 730 PHA5E# 70. EMIS.ANG.# 140 CAM-RAD-# 3190.2 KM. SUN AZM#272.3

  EAC 88 5.40HEMIZS : LAC 87 KONOLEV.DO : LAC 69 ENGLEHANDT : LAC 70 N.W.HERTZSPRUNG.ARTEM & LAC 105 MONOROVICIC

PAGE 207

HIS HAG Sion Holy W W	•	PRIN.PT. ORB LAT. # LUNG.	GET GHT H=DA=YR TIMES=HR H SEC {!=EST(MATED)	CAMERA-LENS OR Sensor Type	• •	ALTI SCALE AT TUDE PRIN. M=N.MI PT. K=KM.	TILT SUNS AZ ANG. FR. VERT	•
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TOTAL PHOTOS IN THIS GROUP . TO

and the second of the second o

70

1

ALTI SCALE AT TILT SUN SIDE. FILM\_EXPOSURE HIS HAS PRIPHOTO PRINIPT, ORB GET GMT M-DA-YR CAMERA-LENS OR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SEN5OR SION ROLL TIMES-HR M SEC OH LAI. PT. FR. LAP TYPE M≭NaĦĮ LUNG. ( = ESTIMATED! MAIN VERT K=KH. 8. 8

- L | 2 35 8-725 162-60W 39 40\* 40\* 145201 8=20=66 LUNAR DRB LO-F=80MM B6W = NONE 1339K 16737500 343 44 20 =>\*\* Cah-Nad-= 9-035 162-51W 5ning=338+ Phase=70+ Emis\*ang==1+ Cah-Rad+= 3078+2 km+ SUN AZM=Z74+8 LAC 87 KURULEV-DU : LAC 70 N=0+ERIZ5 : LAC 88 S=W+HERIZ5 : LAC 106 MARIOTTE & LAC 105 MOHOROVICIC
- L 1 2 39 6-495 149-05W 39 000 0000 145BC1 8-20-66 LUNAR ORB LO-FEBOHM B&W NOHE 1451K 181375DO 77 7-3 7 --90

  CAM-NAD-C 7-895 155-17W SWINGE 73. PHASET 76. EHIS-ANG-E 14. CAM-RAD-E 3190-2 KH- SUN AZHE272-3

  LAC 88 S-W-HERIZS 1 LAC 87 KOROLEV-DO 1 LAC 69 ENGLEHARDT 1 LAC 70 N-W-HERTZSPRUNG-ARTEM 6 LAC 105 HOHOROVICIC
- L | 2 YU 6-445 148-73M 39 \*\*\* \*\*\* 14581D 8-20-66 LUNAS ORB LO-F-BOMM R6W -- NONE 1454K 18175000 77 7-5 6 -- \*90 CAM-NAD-= 7-865 155-00A SWING# 73- PHA5E# 7D. EMIS-ANG.# 14. CAM-RAD-# 3193+2 KM- SUN AZM#2772-2 LAC 88 S-M-HERTZS 1 LAC 87 KONOLEV-DO 1 LAC 69 ENGLEHARDT 1 LAC 70 N-W-HERTZSPRUNG-ARTEM & LAC 105 MOHOROVICIC
- L 4 2 75% 4-29N 145-86W 14 ••\* ••\* 232104 5-15-67 LUNAR ORB LO-F=8DMM B&W NONE 6127K 76587499 1 1-2 \*\* --\*

  CAM-HAD-# -96N 145-96W SWING# 1- PHASE# 115- EMIS-ANG-# 5- CAM-RAD-# 7866-2 KM- SUN AZH#27Z+5

  DEGKADED NEGATIVE 1 LAC 70 N-M-HERTZSPRUNG-ARTEM 6 Q>1/2 MOON SPHERE
- L 5 1 26 27-655 125-06m 7 \*\*\* \*\*\*\* 0142U5 8-08-67 LUNAR ORB FI. 610MM R6W NONE 5MA9K 8309A36 258 904 5 -\*\*\*

  CAM-NAD-# 25-625 9U-85W SWING# 89\* PHA5E# 125\* EHIS-ANG-# 40\* CAM-RAD-# 6A08\*2 KM\* SUN AZM#274+4

  LAC 1U7 ELLERMAN I WI/4 MUONS SPHERE | LAC 70 N.W.HERTZS | LAC 71 N.E.HERTZSPRUNG-GRIGG 6 LAC 134 BOLTZMANN
- 5 1 JZS Z4-BIN 138-12N 13 \*\*\* \*\*\* 155741 8\*09-67 LUNAR ORB HI 610HM 66N NONE 1397K 2290164 280 21:3 1 --\*\*\*

  CAM-NAD-= ZZ-6IN 116-73N SWING# 90: PHASE# 130: EHIS-ANG-# 41: CAM-RAD-# 3136-2 KM: SUN AZM#271:2

  DEGRADED NEGATIVE : LAC 52 JUNE E-MACH 6 LAC 70 N:W#HERT75PRUNG-ARTEM

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR M-DA-YR HIS MAG FR. PHOTO PRIN. PT. URB GLT GHT PAIN AZ ANG, ANG, FAD, AND FILTER TUDE SENSOR TIHES-HR M SEC SION ROLL UR LAT. LAP FR. MEN.HI PT. TYPE (I=ESTIMATED) MAIN LONG VFRT 8 . R K=KM+

- L 4 2 146% 2.79N 136:09E 26 \*\*\* \*\*\* 233025 5-21-67 LUNAH ORB LO.F#BOMM BEW \*\* NONE 6148K 76849999 25 \*B \*\* -,\*\*

  CAM:NAD:# .16N 134:86E SWING# 45. PHASE\* 109. EMIS:ANG:\* 4. CAM:RAD:# 7887.2 KM. SUN AZH=271:7

  DEGHADED NEGATIVE : LAC 66 MENDELEEV : WI/4 MOONS SPHERE : LAC 136 BATLLEY.KIRCHER & LAC 19 CARNOT ROWLAN
- L 5 | 26 27-655 | 25-06W 7 = • • • 014205 8-08-67 LUNAR ORB HI 610MM 86W NONE 5069K 8309836 258 9 4 5 • • CAM NAD = 25-625 90 85W SWINGE 89 PHASE= 125 EMIS•ANG 40 CAM RAD • 6808•2 KM SUN AZH=274 4 LAC 107 ELLLKHAN 1 WI/4 MUONS SPHERE | LAC 70 N•W•HERTZS | LAC 71 N•E•HERTZSPRUNG GRIGG & LAC 134 BOLTZMANN

TOTAL PHOTOS IN THIS GROUP = 3

THESE TWO SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRAVED PHOTOS. \$\* ALMOST UNUSARLE PHOTOS.

IILI ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

{=}•(\*)•(\*)•(\*)• OR(\*)\* NO INFO | W = APPROXIMATELY | NEXT TO MAGN. B-BRACKET HOUNTED; G= CAH. ON GROUND |
CAMERA=LENS AS FOLLOWS: SW.A. = SUPER WIDE ANGLE LENS: EKTR-EKTAR Z.8 LENS:
HSB= HADSELBLAD! | MAURE HAURER: ZP,ZB,ZS = ZEISS LENS!PLANAR,BIOGEN.SONAR]: FOCAL LENGTH(MH) & MAX.F=OPENING IU\* AS EXPOS SPEED = 1/104D IOR \*\* TWO ZEROS)

FOR LUNAR URBITER K AFTER ALTITUDE EQUALS KILOMETERS

CULUHN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

HIS HAG FR. PHOTO PRIN. PT. ORB GET GHT M-DA-YR CAMERALLENS OR SIUN RULL OR LAT. # FILH\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. IF#ESTIMATED) TYPE M=N+MI PT. FR. LAP K=KH. VERT 8, 8

- L 4 2 172 42.935 67.94% 31 000 00029 5-24-67 LUNAR DR8 LO.F=80MM 86% NONE 3011K 37637500 100 4.8 16 -.00

  CAM-NAD-- 41.985 79.28% SWING= 297. PHASE= 86. EMIS.ANG.- 13. CAM-RAD-- 4750.2 KM. SUN AZM-73.1

  LAC 109 PIAZZI.V.880UVARD : \$\text{
- L 4 2 18U 4G+83S 75+23N 32 \*\*\* \*\*\* \*\*\* 17UU54 5\*24\*67 LUNAR ORB LO-F=8DMM 86W NONE 3DD9K 376125DD A5 4+6 16 \*\*\*

  CAM+NAD+# 41+99S 85+86W SW1NG# 283+ PHASE# 87+ EM1S+ANG## 13+ CAM+RAD+# 4748+2 KM+ SUN AZM# 74+6

  LAC 1U9 PIAZZI,V,BUUVARD : \$\text{

- L 4 L 195 14.91S 94.60% 34 em eee eee 173356 5-25-67 LUNAR ORB HI. 610MM B6W NONE 2721K 4460656 109 1.0 15 -.48 Lamenade 14.405 96.11W Swing 294. Phase 78. Emis.ang. 3. Camerade 4460.2 km. Sun azm 85.2 Lastenn Pari of Lac 90 Lowell Tac 108 M.Orienis & Lac 91 Eichstadt.5E.oriental
- L 4 1 196 12-86N 94-86W 34 \*\*\* \*\*\* \*\*\* 180431 5\*25\*67 LUNAR ORB H<sup>1</sup>. 610MM R6W NONE 2675K 4385246 224 \*9 15 -\*\* 25 CAM-HAD\*\* 13-88M 93-82W SWING= 38\* PHASE= 73\* EMIS\*ANG\*= 2\* CAM\*RAD\*\* 4414\*2 KM\* SUN AZM\* 92\*7 EASIERM PART UF LAC 72 ELVEY NOBEL : EASTERN PART OF LAC 54 BELB LAUE : LAC 90 LOWELL & LAC 37 STRUYE\*DALTON
- L 5 1 13 14-32N 102-40W 2 ++\* +\*\* +\*\* +\*\* +\*\* | 1333Z5 8-06-67 LUNAR ORB HI: 610HM 86W NONE 5755K 9434426 279 7-6 3 -\*\*\* | CAM-NAD-# 11-15N 74-61M SWING# 9Z- PHASE# 12Z- EMIS-ANG-# 35- CAM-RAD-# 7494-2 KM- SUN AZM#Z70-8 | LAC 72 ELVET NOHEL : WI/4 MOONS SPHEME : LAC 20 COULOMB : LAC 35 LANDAU 6 LAC 123 STEKLOV

MIS MAG FREPHUTO PRINEPTE ORB Sion Roll or Late # # # Main Longe	118650HR N 5EC 3	RA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. M=N.*N1 PT. FR. LAP H=KH. VERT 8. %
L 5 & 14 &4-27N 102-39W 2 Cam-Nad-= \$1-14N 74-61W Lac 72 Elvey Nubel : #1/4 ModNS	Suther You PHADE IZE	EMIS.ANG.# 35. CAM.RAD.# LAC 35 LANDAU	5756k 9436046 279 7+6 3 ++90 7495+2 KH+ SUN AZH=270+8 & LAC 123 STEKLOV
- 0 10 10 TEN 11 2 20 H 2	133328 8-06-67 LUNAR :	ORB LO.F.BOMM B&W MONE EMIS.ANG.= 35. CAM.RAD.=	5756K 71949999 280 7+6 3 ***90 7495+2 KM+ SUN AZH#270+8
£ 5 1 15 14-23N 102-38W 2  CAM-NAD-= 11-13N 74-61M  LAC /2 ELVEY NOBEL 1 ₩1/4 HOON!	*** *** 133338 8-06-67 LUNAR	ORB HI: 610MM B6W " NONE EMI5:ANG:= 35: CAM:RAD:#	S756K 9436066 279 7+6 3 *+90 7495+2 KH+ SUN AZH=270+8 6 LAC 123 STEKLOV
LAC 72 ELVET NUBEL : #174 NOON.  E 5 2 150 1407UN 162027H 2  CAMONADOP 11013N 7406UN  LAC 72 ELVEY NUBEL : LUNAR DIS	133331 8-05-67 LUNAR Swings 93. PHASE* 122.	ORB LO.F=80MM B&W - NONE EMIS+ANG.= 35. CAM-RAD-#	5756K 71949999 280 7.6 390 7495-2 KM. SUN AZH=270-8
L S 1 16 14-18N 1U2-37W 2		URB HI . 610MM BGW - NONE EHIS . ANG . # 35 . CAM . RAD . #	5757K 9437705 279 7+6 3 -,90 7496+2 KM+ SUN AZM#270+8 6 LAC 123 STEKLOV
L 5 2 16 14 66N 3UZ 26W Z		URB LO.F=80MM B&W - NONE EHIS-ANG-= 35- CAM-RAD-= LIMB OR HORIZON	5757K 71962499 280 7+6 3 +,35 7496+2 KM+ SUN AZM=270+9
L 5 1 17 14+13N 102+36W 2		ORB HI. 610MM R&W " NONE EMIS.ANG.# 35. CAM.RAD.# LAC 35 LANDAU	5757K 9437705 279 7+6 3 90 7496+2 KM+ SUN AZM=270+9 6 LAC 123 STEKLOV
L 5 2 17 14 6 14 102 25 W 2	133336 6-06-67 LUNAR	ORB LO.F#80MM B&W # NONE	5757K 71962499 280 7+6 3 =+90 7496+2 KM+ SUN AZH#270+9
L 5 1 18 14.09N 1U2.35W 2	133338 8-06-67 LUNAR	URB HI. 610HM B6W - NONE EMIS-ANG. # 35. CAM-RAD.	5758K 9439344 279 7+6 390 7497+2 KM+ SUN AZH#270+9 6 LAC 123 STEKLOV
£ 5 2 18 • 14 • 57N 1u2 • 23 6 2	133339 8-06-67 LUNAR	ORB LO.F=80HH ROW - NONE EHIS.ANG.= 35. CAM-RAD.=	5758K 71974999 280 7+6 3 ++90 7497+2 km+ SUN AZM=270+9
L S 1 - 19 14-04H 102-34# 2		URB HI + & LOMM BGW - NONE EMIS + ANG - 35 - CAM + RAD - =	5758K 9439344 279 7+6 3 *+90 7497+2 km+ SUN 47M±270+9 & LAC 123 STEKLOV
5 2 19+ 14-52N 102-22W	2 *** *** 133341 8-06-67 LUHAR	ORB LO.F#BUMM R&W - NONE EMIS.ANG.# 35. CAM.RAD.#	E 5758K 71974999 ZBO 7+6 3 ++90 7497+2 KH+ SUN AZH=270+9

2100	RULL #	OR LAT. Main #	LONG.	TIMES-HR M SEC (IMESTIMATED)		SENSOR TYPE		ALTI SCALE AT 1 TUDE PRIN. / HwN+HI PT. K=KH.	T I L T SUN S A2 ANG, ANG, FR, VERT	
LAC	/2 ELV	VET NOBEL :	21/4 HU0NS	SPHERE : LAC	PHASE 122. O COULOMB :	ORB HI+ 610MM BGW Emis-Ang.= 35. Lac 35 Landau	- NONE	5758K 9439344 2 7497•2 KH• 5	279 7+6 3 SUN AZM=270+9 123 STEKLOV	-
_	CHISTIAN	40.4- 11.4044	/4 · 6 a W	Phillips 91.	Pustin inn	ORB LO.F.BOMM BOW EMIS.ANG.= 35. LIMB OR HORIZON	- NONE	5758K 71974999 2 7497•2 KM• S	280 7+6 3 SUN AzH#270+9	90

TOTAL PHOTOS IN THIS GROUP # 23

and antiques are surprised to the same of the same of

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE GET GHT M-DA-YR CAMERA-LENS OR HIS MAG FR.PHOTO PRIN.PT. URB AND FILTER TUDE PRING AZ ANGO ANGO FADO SENSOR SION RULL OR LAT. TIMES-HR M SEC FR. LAP MeN.HI PT. (TELSTIMATED) TYPE LUNG. MAIN TRBV K=KH.

- L 4 & 25% 3.62% 78.63% 6 \*\*\* \*\*\* 231342 5=11-67 LUNAR ORB LO.F=BOMM B&W NONE 6110K 76374999 101 4.2 \*\* --\*\*\*

  CAM.NAD.= .11% 92.54% SWINGW 101. PHASE= 115. EMIS.ANG.= 19. CAM.RAD.= 7849.2 KM. SUN AZM#267.6

  DEGNADED NEGATIVE & LAC 73 RICCIOLI.NE.ORIENTAL
- L 4 2 163 41+22N 53+38W 29 \*\*\* \*\*\* 063426 5=23=67 LUNAR ORB LO.F=80HH 86W NONE 2867K 35837500 115 2+2 20 --\*\*

  CAM-NAD-= 42-87N 57-71W SWINGE 279. PHASE= 76. EMIS+ANG.\*\* 6. CAM-RAD-\*\* 4A06+2 KM+ SUN AZM\*\*\*107-7

  LAC 23 RUHKER.SHARP : D>1/2 HOON 5PHERE | LAC 73 RICCIOLI.NE-ORIENTAL & LAC 1 N-POLF NEARS!
- L 4 2 166 71-315 60-23W 30 000 0000 161844 5-23-67 LUNAR ORB LU-F#80MM B6W NONE 3593K 44912500 101 3-4 7 --000 CAM-NAD-# 71-195 82-44W SWING# 2640 PHASE# 930 EM15.ANG.# 100 CAM-RAD-# 533202 KM. SUN AZH# 6604 LAC 136 BAILLEY.K : W>1/2 MOON SPHERE : LAC 129 MoAUSTRAL ; LAC 73 RICCIOLI,NEOURIENTAL & LAC 93 MoHUMOR.GASS
- L 4 I 108 14.455 65.18% 30 000 000 173229 5-23-67 LUNAR ORB HI. 610MM B6W ... NONE 2722K 4462295 103 09 17 -047

  CAMONADO THOS SON SWING 2880 PHASE 760 EHIS.ANGOT 20 CAMORADOT 446102 KM0 SUN AZMT 84.09

  LAC 75 GRIMALDI.BILLY S LAC 73 RICCIOLI.NE.ORIENTAL : LAC 91 EICHSTADT.SE.ORIENTAL & LAC 92 BYRGIUS.DARO
- L 4 I 169 13.69N 68.49M 30 444 #.400 [80302 5-23-67 LUNAR ORB HI. 610MM B&M NONE 2672K 4380328 248 .8 17 -.26

  CAM.NAD.= 14.14N 67.33M SWING= 62. PHASE= 7: EHIS.ANG.= 2. CAM.RAD.= 4411.2 KM. SUN AZM. 93.5

  LAC 56 HEVELIUS:R: LAC 55 VASCODEGAM: LAC 38 SELEUCUS:S: LAC 37 STRUVE.DALTON & LAC 74 GRIMALDI.BILL
- L 4 2 170 41•78N 59.600 30 ••• ••• 183518 5-23-67 LUNAR ORB LO.F. AOMH BEN NONE 2871K 35887500 108 2•2 20 --19

  CAM-NAU. -- 143-000 64-22W SWING= 271• PHASE= 76• EMIS-ANG. 6• CAM-RAD. 4810-2 KH• SUN AZM=107-7

  LAC 23 RUMKEN, SHARP : #31/2 MOON SPHERE : LAC 73 RICCIOLI.NE-ORIENTAL & LAC 6
- L 4 1 173 14-775 75.41W 31 \*\*\* \*\*\* D53243 5-24-67 LUNAR ORB HI. 610MM BGW NONE 2724K 4465574 116 .6 15 --48 Cam-Nad \*\* 14-375 76-23W SWING\* 301 PHASE\* 76. EMIS-ANG.\*\* 1. CAM-RAD \*\* 4463-2 KM\* SUN AZM\* 85-1 EASTERN PART OF LAC 73 RICCIOLI:NE-URIENTAL ; EASTERN PART OF LAC 91 EICHSTADT, SE-ORIENTAL ; LAC 55 VASCODEGAM & LAC 92 BY
- L 4 2 173 14.765 75.41W 31 4.4 4.40 053243 5-29-67 LUNAR ORB LO.FRADHN BAN NONE 2724K 34050000 116 46 15 -, 7

  CAM.NAD.- 14.375 76.23W SWINGE 301. PHASE= 76. EM!S.ANG.= 1. CAM.RAD.= 9463.2 KM. SUN AZME 85.1

  LAC 73 RICCIULI.NE.ORIENTAL : G>1/2 MUON SPHERE : LAC 193 S.HAUSEN LEGENTIL & LAC 36 RONTGEN LORE

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T LAC 108 M.ORIENIS & LAC 91 EICHSTADI.SE.ORIENTAL
                                                                                     LASTERN PART OF LAC 90 LONELL
     CAH+RAD ** 9460 * KH* SUN AZHS 85.2
                                             2HING= 294. PHASE# 78. EHIS.ANG.= 3.
                                                                                          CAM-HAD - 4405 96-11#
      - NONE SYSIK 4460656 109 1.0 15
                                            MAR HHOIS *IH 890 MANUA TO-25-2 625551 **** PE WOO-49 219-PI 291 I P J
  S LAC 73 RICCIOLI, NF. 0
                                            LAC SS VASCUDEGRA 1 LAC 72 ELVEY MOBEL ; LAC 37 STRUVE, DAL ; LAC 54 BELB LAUE
     T+S9 =HIA NUS
                     CAM-RAD. 4414.2 KM.
                                             .E #. DNA.ZEM3 .ST #3ZAH9 .ed #DNINZ #91.V8 MS9.EE #. CAN. NAJ
    NOME 5912K 4382549 522 1.3 12
                                            WAR 13.3844 89.224 33 *** *** Oboquy 5-25-67 LUNAR ORB HI, LIONH BEW
    I LAC 143 S-HAUSEN LEGENTIL 6 LAC 36 RONTGEN LORF
                                                               T DAINZ HOOM SPHERE
                                                                                        LAC 73 RICCIULI,NE.URIENTAL
     h*SR =HZY NDS
                     CAMORAD. # 4462.2 KH.
                                            PHASE 77. EMIS.ANG. . 1.
                                                                          *066 =3NIMS
                                                                                         #64.68 285.P1 #+GAM+MAJ
     Ե1 S+
              NONE SYSSK SHOSTSOD 145
                                            # 7 181 7 181 84.946 89.016# 33 *** *** 45.50 LUNAR ORB LO.F. #80HH B.F.#
    5 LAC 91 ETCHSTADT.5E
                            I FYC 108 HOUSIENISH 1/3 B)
                                                                   TRE SO FOMEFF
                                                                                        THE 13 RICCIOLI, WE. ORIENTAL
                     CAM-RAD. 4462+2 KH.
                                          PHASE= 77. EHIS.ANG.= 1.
                                                                          *DEE #9NI#S
                                                                                         WBP.498 SAE.PI =. GAN-MAJ
              NONE 5153K 4463434 145
                                            MAB MM018 *IH 8H0 RANUJ 78-25-2 PEEE20 **** ** EE #40.98 279-41 THE I P J
  CENTHAL PART OF LAC SS VASCOULGAM : CENTRAL PART OF LAC 37 STRUVE, DAL : LAC 73 RICCIOL1, NE, ORIENT & LAC 22 SE, GERARD, BUN
     CAH-HAD-# 13-88H 80-57H 60-57H 62-143- PHASE= 72. EMIS.ANG.# 3. CAH-RAD.# 9413-2 KH. SUN AZHE 93-7
44.4 41 0.1 926 TO468EP XPTAS 3NON -
                                            E 4 1 185 15.264 81.41# 32 0.0 0.0 180342 5-24-67 LUNAR URB HI. 6104M BEM
   E LAC 21 N.GERARD.BGG
                            T LAC 143 SOHAUSEN LEGENTIL
                                                               1 M>1/2 WOON SCHEKE
                                                                                        LAC 73 RICCIULI, NE. URIENTAL
     CAM-RAD. 4463-2 KH. SUN AZHR 85.7
                                            CAN-HAD.# 14-945 82.86# SHING# 212. PHASE# 76. EHIS.ANG.# 2.
    51 60
             NONE 2724K 34050000 26
                                            C 4 2 181 79.032 85.164 35 *** 133303 2-24-67 LUARR ORB LO.F. BOHH BE#
CENTHAL PART OF LAC 73 RICCIOLI, NE ORIEN I CENTRAL PART OF LAC 91 EICHSTADT, SE. ORIE & S. W. PART OF LAC 55 VASCODEGANNA. HED
                                          PHASE 76. EHIS.ANG. 2.
                                                                         CAM-MAD. # 14-445 82-868 SWING 212.
             NONE SISHK HAPPELH SP
                                            WAS HMDIA .IH 880 BAUUJ Td-P2-2 SDEETI .... SE WAI.SB 200-E1 181 I P J
   E LAC 1 N.POLE WEARS!
                          I LAC 73 RICCIOLI, NE, ORIENTAL
                                                               T BALLS MOON SPHERE
                                                                                    LAC 22 SE-6ERARD.BUNSEN, HARDING
                 PALL+2 KH+
                              ■•GAN•MA⊃
                                          PARSE* 76. EMIS.ANG.= 5.
                                                                         *612 #9N1Ms
                                                                                        APT-UT NAB-SP #-UAM-MAD
     NONE 2872K 35900000 116 2.0 19
                                           N 2 175 91.294 66.788 31 *** *** 603542 5-29-67 LUNAR URB LO.F. #80HH B6#
  EASTERN PART OF LAC 55 VASCODEGAN : EASTERN PART OF LAC 37 STRUVE, DAL ; LAC 73 RICCIOL, NE. DRIENT & LAC 38 SELEUCUS, SCHR
    PHASE= 71. EHIS.ANG. 3. CAH.RAD. 4412.2 KH. SUN AZHE 93.0
                                                                          *69 #9NIPS
                                                                                         #20.65 MIG.61 = GAM-HA3
     - NOME 2673K 4381967 ZES 1.3 16
                                           8 2
        VERT
         Ł B •
                       IN•NeH
                                                      3911
                                                                         (431AM1123#i)
PRIN. AZ ANG. ANG. FWD.
                                                                                        - * DNOT -
                          AND FILTER TUDE
                                                     HOSH35
                                                                         TIMES-HR H SEC
ALTE SCALE AT T I L T SUN SIDE.
                                                                                        23
                                                                                               • I ¥ 7
                               CAMERA-LENS OR FILM-EAPOSURE
                                                                 HY-AU-H THD
                                                                                179
                                                                                       BHO .T4.HINY OTUN9.NY DAM 21H
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TYC 13 KICCIOFI'NE'OBIENIYE

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MIS HAG FR.PHOTO PRIN.PT. URB GET GMT H-DA+YR CAHERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE, SION HOLL OH LAT. # TINES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. FWD. MAIN LONG. ( #ESTIMATED) TYPE M=N.MI PT. FR. LAP K=KH. VERT 8. K

- L 3 2 172 2+415 44+36# 88 \*\*\* \*\*\* 185813 2\*Z1\*67 LUNAR ORB LO.F=80MM 86W NONE 52K 650000 255 66+5 13 \*\*\*\* Cam-Had.# 1+305 39+84# Swing= 21\* Phase= 16\* Ehis-Ang.# 71\* Cam-Rad.# 1791\*2 km\* 5UN AZH# 90+9 H\* N\* Part of lac 75 Letronne,Flamsto & N\* E\* Part of lac 74 Grimaldi,Billy
- L 3 | 213 | 3+335 | 59+78W | 94 +++ ++++ | 154656 | 2-22-67 | LUNAR ORB HI + 610MM B&W NONE | 59K | 96721 | 200 | 66+5 | 8 --+++ Cam-Nad-= | 1+31M | 58+00W | SWING= | 2+ Phase= 69+ Emis+ang= 71+ | Cam-Rad== 1798+2 | Km | SUN AZM= 91+0 Northern Part of Lac 74 Grimaloi, Billy | 6 | Limb or Horizon
- L 4 2 139 42-17N 28-25W 25 \*\*\* \*\*\* 062940 5-21-67 LUNAR ORB LO-F=80MM B&W NONE 2872K 35900000 102 1-6 20 --24

  CAM-NAD-= 42-82N 31-79W SWING= 267. PHASE= 74. EHIS-ANG.= 4. CAM-RAD.= 4411-2 KM. SUN AZM=108-6

  LAC 24 51NU5 IKID ; W>1/2 MOUN SPHERE ; LAC 74 GRIMALDI-B ; LAC I N-POLE NEARSIDE BYRD-PEARY >80 N & LAC 14 ENDYMION.STRA

- L 4 2 151 40.88H 40.20W 27 \*\*\* \*\*\* 063228 5=22=67 LUHAR ORB LO.F=80HH B6W NONE 2466K 35825000 118 2.4 21 -.\*\*

  CAH.NAD.# 42.84H 44.74W SWING= 282. PHASE# 75. EMIS.ANG.# 6. CAM.RAD.# 4605.2 KM. SUN AZM#[08.3

  LAC 23 NUMKER,SHA; W>1/2 MOON SPHERE; LAC 74 GRIMALDI.H; LAC 1 N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 13 ARISTOTE.M.F

MIS NAG FROPHOTO P SION RULL OR LAT W M HAIM W	· # Til LONG. (i:	IF2+HK # SEC		SENSOR Type	AND FILTER	TUDE PRIN. H=N.H1 PT. K=KH.	VERT S. S
L 4 2 154 71+7u5 CAM=NAU+= 72+U75 LAC 137 NENTUR <sub>9</sub> HO ;	A4 = 24 W 3 P	IIII. TAR.	Ductor	A3			105 5+2 11 ",** SUN AZM# 52+2 C 93 M+HUMOR++GASS
ι 4 1 156 14+885 CAM+NAD+= 14+395	55.80W 28 ••• 56.29W 5.	**** 173043	5-22-67 PHASES	LUNAR URB Hl. 610MM 74. Emis.ang.= 1 LAC 92 Byrgius,da ;	R6# T NONE	2722K 9467295	136 .4 1749
t 4	56•27W 39	/ WG= 321.	PHASE #	74. EMISSANO. W. I	- CAM-BAB	ff 43 2 4 9 44 45	ann 00 -
L 4 1 157 13+36N Lah-Nad-= 13+91N Eastern Part of Lac	56.27W 28 54.17W S. 56 HEVELIUS.REI	•••• 180116 ING= 69. NER	5-22-67 Phases I eas	LUNAR ORB H <sup>1</sup> . 610MM 70. EMIS.ANG.= 3 TERN PART OF LAC 38	BGW - NONE CAMORADOS SELEUCUS,S & NORT	2669K 437541N 4408+2 KM+ HERN PART OF L	255 1+4 1728 SUN AZM= 93+4 AC 74 GRIMALDI+BIL
£ 4 1 161 15•135 CAN•NAD•= 14•365	61.98# 29 *** 62.94# Sa	**** 053134	5-23-67 (		BOW - NONE	2723K 4463934	129 •8 17 •,48
L 4 2 161 15-135 CAM-NAD-= 14-365 LAC /4 GRIMALDI-B 1							
L 4 1 162 13•22H Cam•mad•= 13•93N #ESTERN PART OF Lac	62.17m 29	**** GAD208	5-23-67	UNAD ODD HI ALONN	05.00	A.3-V3	
L 4 1 168 14.455 CAH-NAD-= 14.145	68-18% 30 ***	*** [73229	5*23*67		B&W - NONE	2722K 4462295	103 -9 1747

- " | 169 | 13-64N 68-49N 30 ++" ++++ 1803U2 5-23-67 LUNAR URB HI. 61DHN 86W NONE 2672K 4380328 248 .6 | 17 --26 Cam-Nad-= 14-14N 67-33W Swing= 62" Phase= 71" Emis-Ang== 2" Cam-Rad-= 4411-2 km sun azm= 93-5 Lac 56 Hevelius-K ; lac 55 vascudegam ; lac 38 seleucus-5 | lac 37 struye-dalton 6 lac 74 grimaldi-biel

## LAC 74 GRINALDI.BILLY

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HIS HAG FR.PHUTU PRIN.PT. ORB GET GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OH LAT. B TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN, AZ ANG. ANG. FWD. MAIN LUNG. (Imestinated) TYPE MaN+HI PT. FRo LAP K#KH. VERT 2. \$

TOTAL PHOTOS IN THIS GROUP = 21

THESE THU SYMBULS NEXT TO HAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS, \$# ALHOST UNUSABLE PHOTOS,

ILLT ANGLES : AZIMUTH DF DIRECTION OF TILTIAZ) & VERTICAL TO CAMERA AXIS

(-)\*(\*)\*(\*)\*(\*)\* UR(U) # NO INFO # # APPROXIMATELY NEXT TO MAG#, B#BRACKET MOUNTED; G# CAH\* ON GROUND

CAMERA-LENS AS FOLLOWS: SHA\*\* \* SUPER WIDE ANGLE LENS! EKTR#EKTAR 2.8 LENS!

HSB# HASSELBLADI MAUN# HAUNER! ZP, ZB, ZS # ZEISS LENS(PLANAN\*, BIOGEN\*, SONAR); FOCAL LENGTH (MH) & MAX\*\* F=OPENING

1U\*\* AS EXPOS SPEED # 1/1000 (OR \*\* TWO ZEROS)

FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILDHETERS

COLUMN HEADINGS APPLY TO \$ IRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF \$ 1/XXX ON ORIG\*, AT PP IF ALT NOT O\*D

S I 0	DAG FR•PHOIU PRIN•PT• DRB GEI GMT KULL OR LAT• # TIMES=HH M SEC # MAIM LONG• (1=£STIMATED) #	SENSOR	AND FILTER TO	LTI SCALE AT T I UDE PRIN. AZ H=N.MI PT. K=KM.	L T SUN SIDE. ANG. ANG. FWD. FR. LAP VERT 8. *
i, i	2 154 U.58N 36.47W 90 000 0000 233105 CAM.NAD. 557N 36.35N SWING 95. 5. L. PART OF LAC 57 KEPLER.ENCKE	PHASE 70. EMIS.ANG. 4.	CAN+RAD+m 17	790+2 KM+ SUN	4.1 3648 A7M= 88.6
L I	4 155" U-45N 35.86H 90 00" 0000 233115 CAM.NAD.= .45N 35.75W SWING= 94. 5. L. PART UF LAC 57 KEPLER,ENCKE	PHADES TO EMISIANO, S. 4.	CAH+RAD+m 17	790•2 KM• SUN	3+5 1647 AZH# 88+5
į i	Z 156 0+32N 35+24W 90 ++* ++* ++* +* 233125 CAM+NAD+* ++* +* +* +* +* +* +* +* +* +* +* +*	8-27-66 LUNAR ORB LO.F-BOMM R&W PHASE= 70. EMIS.ANG.= 3. 6 N. E. PART	" NONE CAM•RAD•# 17 OF LAC 75 LET	50K 625000 270 /89+2 KH+ SUN /RONNE,FLAHSTD	2+9 1746 AZM= 88+5
L 1	2 175 J.42 <sup>5</sup> 35.30W 98 030536 LAM.NAD.= 2.915 35.62W 5WING. 324. N. E. PART OF LAC 75 LE	PHASE 70. FHIS.ANC = 20.	T NONE	50K 625000 148 /89.2 KH. SUN	19+8 31 -,** AZH# 86,2
i k	2 /6 J.U4S 37:03# 99 *** *** 063159 CAM+HAD** J.U2S 37:04# SWING* 316. N. E. PART OF LAC 75 LE	PHASE# 60# EHIS+ANG.# 1.	- NONE Cam+rad+= 17	51k 637500 148 '90+2 kH+ SUN	•8 31•• AZH= 86.4
L I	2 177 3.445 36.89W 99 063201 LAM.WAD.= 3.345 36.91W SWING= 309. W. E. PART OF LAC 75 LE	PHASEM GO. EMIS.ANG.m l.	- NONE Cah•rad•= 17	51K 637500 141 '90+2 kH+ SUN	•9 3187 AZMm 86•4
į į	2 178 3-095 36-75# 99 *** *** 063284 CAM-NAD-= 3-075 36-77# Shing= 304- H. E. PART OF LAC 75 LE	PHASE AD PHISTANC 1.	■ NONE Cam•rad•= 17	51K 6375n8 136 '96+2 KH+ SUN	1.0 3187 AZH= 86.4
i, i	2 179 3-125 36-61W 99 *** *** 0632U6 CAM*NAD** 3-1US 36-64W SWING* 300* N* E* PART UF LAC 75 LE	PHASE= AD. FHIS.ANG.= 1.	- NONE CAH+RAD++ 17	51K 637500 132 90+2 KM+ SUN	1 • 1 31 67 AZM= 86 • 3
( I	2 180 3-135 36-47W 99 0632U8 CAM-HAD-= 3-135 36-50W SWING= 297.	PHASE	= NONE Cah+rad+= 17	51K 6375n0 129 90+2 kM+ SUN	1+2 3187 AZH# 86+3

N. E. PART OF LAC 75 LETRONNE, FLAHSTO

N. A. PART OF LAC 75 LETRONNE, FLANSTO

MIS MAG FRIPHUTU PRINIPT. URB. GET. GHT H-DA-YR. CAMERA-LENS OR FILM-EXPOSURE. ALTI SCALE AT TILI SUN SIDE. AND FILTER TUDE PRIN. AZ ANG. ANG. FHD. SEHSUR SION RULE OR LAT. # TIMES-HR M SEC FR. LAP M=N+HI PT. TYPE CIMESTINATEDI n n MAIN ŁONG. K=KM. VERT 8 . 8 E I 2 181 3+185 36+334 79 ++\* +\*\* 063210 8=29-66 EUNAR ORB LO-F=80MM B6# - NONE 51K 637500 176 1+4 31 -+87 CAM-NAD .= 3-155 36-37# SHING= 294. PHASE= 60. EMIS-ANG-# 1. CAM-RAD .= 1790-2 KM. SUN AZM# 86-3 N. E. PART OF LAC 75 LETRONNE, FLAMSTO - NONE 52K 650000 124 1+5 31 -+87 L 1 2 182 3.215 36.19# 99 ... 063213 8-29-66 LUNAR ORB LO.F#8BHM B&W CAM+RAD+= 1791+2 KH+ SUN AZH# 86+3 CAM-NAD- 3-185 36-238 5WING= 292. PHASE= 60. EMIS-ANG.= 1. N. E. PART OF LAC 75 LETRONNE FLAHSTD - NONE 52K 650000 122 1+6 32 -- 87 L 1 2 183 3.235 36.35W 99 ... 063215 8-29-66 LUNAR ORB LU.F=80MM B&W SUN AZH# 86+2 CAH+RAD+= 1791+2 KH+ CAM-NAD- 3.215 36-09W SWING 290. PHASE 60. EMIS-ANG. 2. N. E. PART OF LAC 75 LETHONNE-FLAHSTO NONE 49K 612500 300 1.0 25 ---L 1 2 184 1-895 44-39h 100 ++\* ++\* 095644 8-29-66 LUNAR ORB LO.F. 80MM 86W SUN AZH. 87.4 CAM+RAD+= 1788+2 KM+ SWINGE 108. PHASES 64. EMIS-ANG. 1. CAM-HAD+= 1.915 44+376 N. W. PART OF LAC 75 LETHUNNE FLAMSTO - NONE 49K 612500 302 +9 25 -. BR L 1 2 185 1-925 44-268 100 \*\*\* \*\*\*\* 095646 8-29-66 LUNAR ORB LO-FESOMM 868 CAM+RAD+# 1788+2 KM+ SUN AZM# 87+4 CAMINADOR 1.935 44.246 SWINGE 111. PHASE 64. EMIS.ANG. 1. N. W. PART OF LAC 75 LETRONNE FLAMSTO - NUNE 49K 612500 306 +7 25 -+88 L 1 2 186 1.955 44.14# 100 ++\* ++\* 095648 8-29-66 LUNAR ORS LO.F=80MM B&W CAM-RAD-# 1788+2 KH+ SUN A7H# 87+4 CAM-NAU. 1.965 44.12N SWINGE 115. PHASE 64. EMIS.ANG. 1. H. H. PART OF LAC 75 LETRONNE, FLAMSTO 46 25 -.88 1 2 187 1.975 44.01W 100 \*\*\* \*\*\* 095650 8-29-66 LUNAR ORB LO.F. #80MH B&W - NONE 49K 612500 311 CAM+RAD+# 1788+2 KM+ SUN AZH= 87+4 CAM-HAD. 1.995 43.994 SWING 120. PHASE 64. EMIS-ANG. 1. No W. PART OF LAC 75 LETRONNE FLAMSTO - NONE 49K 612500 318 +5 26 -188 L 1 2 188 2.005 43.88W IQU ... .. 075652 8-29-66 UNAR URB LD.F. 80MM 86W CAH+RAD+# 1788+2 KM+ SUN A7M# 87+4 CAM-NAD.= 2-LIS 43-87W Shing= 127. PHASE= 64. EMIS-ANG.= 1. H. N. PART OF LAC 75 LETRONNE FLANSTO 12500 329 4 26 -18A 1 1 2 189 21035 43.75W 108 000 000 005654 8-29-66 LUMAR ORB LO.F. HOMM BAN NONE 49k CAH+RAD+= 1788+ KH+ SUN A. 87+3 CAMINADO - 20045 43074W SWING 1380 PHASE - 640 EMISOANGO - 80 N. W. PART OF LAC 75 LETRONNE, FLAMSTO L | 2 190 2-065 43-626 | 100 600 0000 095656 8-29-66 LUNAR ORB LO-FEROMM BOW - NONE 49K 612500 346 +3 26 -+88 CAM+RAD+# 1788+2 KM+ SUN AZM# 97+3 CAM-HAD-= 2-075 43-61W Saing= 154. PHASE= 64. EMIS.ANG.= 0. N. W. PART OF LAC 75 LETRONNE FLAMSTO - NONE 49K 612500 8 +3 26 -.88 L 1 2 191 2.085 43.498 100 000 000 095659 8-29-66 LUNAR ORB LO.F=80MM BGW CAM-RAD+= 1788+2 K1+ SUN AZM= 87+3 CAM-NAD-= 2-UYS 43-49W SWING= 176. PHASE= 64. EHIS-ANG.= 0. N. N. PART OF LAC 75 LETRONNE FLAM > 10 +3 26 -+BB E E 2 192 2-115 43-364 160 000 0000 D95701 8-29-66 'UGAR ORB LO-F=80MM RE4 - NONE 49K 61250U 31 CAM - RAD - 1788 - 2 KM -SUN AZMa 87+3 CAMONADOM 20125 43036H SWINGW 1990 PHASEM 640 EMISOANGOM DO

A contract of the second of th

STON	MAG FRIPHOTO PR ROLL UR LAT- H HAIN	#	TIMES-HR M SEC		RA-LENS OR T SENSOR TYPE	FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M=N.MI PT. X=KH.	AZ ANG. ANG.	FWD.
į 1	2 193 2-145 CAM-HAD-# 2-145	43.23#	*** ••** 075703 Swing= 218* UF lac 75 lei	PHASE≡ 84.	URB LO.F=80HH EMIS.ANG.= 0	B6W = NGNE . CAM.P4U.=	49K 6125n0 1788+2 KM+	49 +4 26 SUN AZH# 87+3	B 7
L I	2 194 2+165 CAH+NAD+# 2+175	43.114	••• •••• 0957US Swing= 230• OF LAC 75 LE	PHASE= 64.	ORB LO.F.BOMM EMIS.ANG I		49K 6125NU 1786•2 KM•	61 +5 26 SUN AZH# 87+2	88
į, l	2 195 2-195 Can-Had-= 2-265	42.98%	*** **** 095707 Swing= 238* OF LAC 75 LET	PHASE# 64.	ORB LOFF=888HH EHIS+ANG+= 1		49K 612500 1786+2 KM+	70 +6 26 Sun Azh= 87+2	88
լ 1	2 196 2.225 Cam.Had.# 2.225	42.85%	5WING= 244. OF LAC 75 LE	PHASEM 64.	ORB LO,F=80MM EM15+ANG.= 1		49K 612500 1788+Z KM+		8A
ι Ι	2 197 2-245 LAM-HAD-= 2-255	42.73*	••* •••• 095711 Swing= 240• OF LAC 75 LE	PHASE# 64.	ORB LO.F=80MM EMIS+ANG.= 1		49k 612500 1788+2 kH+	79 +8 27 SUN AZM= 87+2	<b>8</b> A
į i	2 198 2.275 CAM.NAD.= 2.275	42.60%	*** **** 095713 Swing= 251. Of Lac 75 LE	PHASE# 64.	ORB LO.F#80MM EMIS.ANG.#		49K 617500 1788+2 KM+		87
ιi	2 199 2.365 CAN-NAD-= 2.365	42+47#	*** **** 095715 Sming= 253. OF Lac 75 LE	PHASE 64.	ORB LO.F=BOHM EMIS.ANG.= 1		49K 612500 1788.2 KH+	84   1 27 SUN AZM# 87+1	89
<u>.</u> 1	2 200 2.305 CAM-NAD-= 2.315	44.38m		PHASE# 63.			50K 6250A0 1789+2 KM+		
ŧί	2 201 2:335 LAM:NAD:= 2:345	44 • 25 H	••• •••• 132333 Swing= 133. DF Lac 75 LE	PHASE # 63.	URB LU.F=80MM EM15.ANG.= 0		58K 625900 1789+2 KM+	324 +4 27 SUN AZH= 87+1	-,R7
( )	2 202 2+365 CAN+NAD+= 2+375	44.13m	ou* **** 132335 Swinge 149* OF LAC 75 LE	PHASE= 63.	ORB LO.F#80HM EHIS.ANG.# (		50K 6250AU 1789•2 KH•	341 +3 27 SUN AZMm 87+1	
į l	2 203 2+385 CAM+HAD+# 2+395	44.00%	*** **** 132337 Swings 174* OF LAC 75 LE	PHASE≈ 63.	ORB LO.F#BONN ENIS.ANG.# L	R&W → NONE J• CAM•RAD•#	50K 625000 1789+2 KM+	6 +3 27 SUN AZH= 87+1	87
į J	2 204 2+415 CAM-HAD+= 2+425	43.8711	*** **** 132339 SNINGE 201: OF LAC 75 LE	PHASE= 63.	URB LO.F=ROMM EMIS+ANG.= C	B6W - NONE J. CAM-RAD-=		33 +3 27 SUN AZM# 87+0	

## REPRODUCIBULTY OF THE ORIGINAL PAGE IS POOR

PAGE 221

#15 510N #	HAG FR.PHUID PRIN.PT. ORB ROLL UR LAT. # # HAIN LONG.	GET GHT M=DA+YR TIMES-HK M SEC (l=ESTIMATED)	CAMERA-LENS OR FILM-E SENSOR TYPE	XPOSURE AND FILTER	ALTI SCALE AT 1 TUDE PRIN. A MEN.MI PT. K#KH.	TILT SUN SIDE. AZ ANG. ANG. FWD. FR. LAP VERT S.8
ų I	2 205 2.445 43.73W EUE CAM-NAD.= 2.455 43.74W N. H. PART	*** *** 132341 8-29-66 S#ING= 221 PHASE= OF LAC 75 LETKONNE.FLA	: 63. EH15.ANG.# U.	CAM+RAD+=	1739+2 KH+ 5	
L 1	2 266 2.475 43.60W IDE CAM-MAD+= 2.475 43.61W N. W. PART	••• •••• 132343 8-29-66 Swing= 233• Phase Of Lac 75 Letronne,fla	- 63. EHI5.ANG 1.	- NONE CAM+RAD+=	50K 625000 1789+2 KM+	45 •5 28 -•87 SUN AZM# 87•0
į j	2 267 2.475 43.46% 101 Cananado= 2.565 43.48% Na na Part	*** *** 132346 8-29-66  Sming= 241	= 63. EMIS.ANG.= L.	- NONE CAM+RAD+=	50K 625000 1789•2 KM•	SUN AZM= 87+0
L I	2 208 2.525 43.33# 101 CAM.NAU.* 2.535 43.35W N. W. PART	*** *** 132348 8-29-66 SWING# 246* PHASE OF LIC 75 LETRONNE,FLA	= 63. EMIS+ANG.= 1.	* NONE	50K 625000 1789+2 KM+	78 •7 28 =•87 SUN A7M= 86•9
į, J	2 209 2.555 43.20% 101 Cam.nad.= 2.555 43.22% N. A. PART	*** **** 132350 8-29-66  SWING: 250* PHASE  OF LAC 75 LETHONNE,FL	= 63. ENIS.ANG. = 1.		1789+2 KH+	82 .8 2887 SUN AZH= 86.9
į, l	2 ZIU 2.5d5 43.0AN 101 CAN.HAD.= Z.585 43.09h N. W. PART	••• •••• 132352 8-29~66 SHING# 253• PHASE UF LAC 75 LETRUINE.FL	= 63. EHIS.ANG.■ 1.	- NONE CAM+RAD+=	50K 625000 1789•2 KM•	84 •9 28 -•87 SUN A2M# 86•9
įį	2 211 2.605 42.93% 101 CAM-NAU.= 2.615 42.96% No no PAR	••• •••• 132354 8*29*66 Swing= 255• Phase OF Lac 75 Letronne.fl	≠ 63. EMIS.ANG.= I.	- NONE CAM+RAD+#	50K 625000 1789•2 KH•	86 1.1 2887 SUN AZH= 86.9
L I	2 412 2.635 42.79% 101 CAM.NAD.= 2.635 42.83W N. W. PAR	••• •••  32356 8-29-66 Swing* 256• PHASE 7 UF LAC 75 LETRONNE,FL	= 63. EMIS.ANG.= 1.	→ NONE CAM•RAD•■	50K 625000 1789+2 KH+	88 1.2 2888 SIIN AZM= 86.9
נו	4 213 4.665 42.66# 131 CAM-NAU = 2.665 42.70# No #. PAR	••• •••• 132358 8-29-66 Swing= 258• PHASE T OF LAC 75 LETRONNE.FL	= 63. EH15.ANG.= 1.	CAM+RAD+=	1790+2 KH+	
įį	2 214 2.695 42.53W ICL CAH-NAD.= 2.695 42.57W No we PAR	• • • • • • •   3240  8-29+66 Swing = 255	= 63. EMIS.ANG.= 1.	CAM+RAD+#	1790+2 KH+	
	N. W. PAR	SHING= 260. PHASE TOF LAC 75 LETHONNE.FL	≖ 63+ EHIS+ANG+¤ 2+ AHSTD	CAM+RAD+=	1790+2 KM+	
įδ	2 161 1-59H 42-03M 83 Cab-rad+* 1-63H 37-90% Southern Part of Cac 5	••• •••• 013338 2-21-67 Swing# 81. Phase 7 Kepler,encke	LUNAR ORB LO.F=80MM B&W = IS. EdIS.ANG.= 69. & NURTHERN PA	- NONE CAM+RAU+= RT OF LAC 75	54K A75000 1793+2 KM+ LETRONNE,FLAMSTO	269 64+8 6 -+*° SUN AZH# 91+6 )

								TAGE	222
	Ħ	# MIN	LUNG. (INL	T GMT M+DA-YR CA 5-hn M Sec Stimated)	TYPE	AND FILTER	TODE PRIN. H=N <sub>4</sub> H1 PT <sub>s</sub> K <sub>B</sub> KM.	AZ ANG. ANG. FR. VERT	FWD. LAP 8, 8
			N. E. PART OF	••• 153102 2-21-67 LUNA NG= 20• PHASE= 15 LAC 75 LETRONNE FLANSTD	6 CHI 3 MA CHI 3 3	FIRE UE HOSIS	OM   1221•5 KH•	SUN AZM# 90+2	
	<b>.</b> 3	2 171* 3=865 CAM-HAD+= 2+96	. 16.894 87 ••• • 5 31.484 541	••• 153102 2-21-67 LUNAI NG= 21. PHASE= 15. Lac 75 Letronne, Flamstd	R ORB LO.F. #80HM 86W	= NONE	\$2K	255 62+5 18 SUN AZM# 90+2	-,••
	<b>.</b> 3			••• 185813 2-21-67 LUNA: WG= 2:• PHASE= 16: DHNE,FLAHSTD					-,••
	į 3			••• 185813 2-21-67 LUNAI NG= 21• PHASE= 16: DNNE <sub>•</sub> Flamsid				255 A6+5 13 SUN AZH# 90+9	-,00
	. 3	1 173 3+255	37.27W 89 *** ** 5 37.25W 5wii	••• 222759 2-21-67 LUNAF NG: 349. PHASEE 68. Lac 75 Letronne, Flanstd	ORB HI. SIONN BEW			189 3+5 21 SUN A7M# 90+3	-,••
ļ	_ 3	2 1/3 3-255 CAM-HAD-= 3-15	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	I++ 222759 2-21-67 LUNAF IG= 35U. PHASE= 68. LAC 75 LETRONNE,FLAMSTD	. EMISTANC # 4.	T NONE	53K 662500 1792+2 KH+	190 3.5 21 SUN AZM# 90.3	-,••
4	<b>.</b> 3	1 174 3.53S CAM.HAD.= 3.20		2228ul 2-21-67 LUNAR IG= 347. PHASE= 68. LAC 75 LETRONNE,FLAMSTO	R ORB H1. 610MM B6W . EMIS•ANG.= 4.	- NONE	53K 86865 1792•2 KH•	187 3+6 21 SUN AZH= 90+2	B
1	. 3	2 E74 3+3JS CAM=PAD== 3=20	S 37-114 SW18	I 2-21-67 LUNAR IG= 348. PHASE= 68. LAC 75 LETRONNE.FLAMSTO	R ORH LO.F=89MM 8&W . EM15.ANG.= 4.		53K 662500 1792•2 KM•	188 3.5 21 SUN AZM# 90.2	-,87
•	_ 3	i i75 3.365 Cam-Nad-= 3.25	S 36+98W SWIR	1** 222803 2-21-67 LUNAR 1G= 344. PHAS⊆≈ 68. LAC 75 LETHUNNE,FLAMSTD	R ORB HI. 610HM B&W EMIS•ANG•# 4•	- NONE CAM+RAD+#	53K 86885 1792•2 KH•	184 3+6 22 SUN AZM# 90+2	<b>~.</b> 7
ı	. 3	2 175 3+365 CAM+PAD+= 3+25	5 36-98m 5w1M	•• 2228U4 2-21-67 LUNAR IG= 345• PHASE= 68• LAC 75 LEIHONNE,I LAMSTO	ORB LO•F≅80HM B&W EMIS•ANG•# 4•		53K 6625n0 1792•2 KM•	186 3.5 22 SUN AZM# 90.2	87
	د .	1 176 3-415 CAM-MAD+= 3-30		** 222806 2-21-67 LUNAR G= 342. PHASE= 68. LAC 75 LETHUNNE,FLAMSTO	0RB HI. 6:0MM B&W EMIS-##6-= 4.	" NONE	54K 88525 1793•2 KM•	182 3+6 22 SUN AZM# 90+2	-, 7
t	3	2 176 3+415 CatteMade 3+309	2 20 0 2 4 1 14	** 222806 2-21+67 LUNAR G= 343* PHASE= 68* LAC 75 LETRONNE,FLAMSTD	FMINANC # 4	- NONE	54K 675000 1793+2 KM+	183 3+6 22 Sun Azm= 90+2	87

STON KOLL OK ENT	KIN.PI. ORB GET  M TIMES-H LUNG. (:=ESTI	IK M SEC	CAMERA-LENS OR Sensor Type		ALTI SCALE AT TUDE PRIN. H=N.HI PT. K=KH+	AZ ANG. ANG.	FWD.
€ 3 1 177 3•465 CAM+HAU+= 3•355	36.72W 89 Swings N. E. PART OF LA	: 340+ PH <sub>A</sub> S	E= 68. EMI5.ANG.#	B&W - NONE 4. CAM-RAD-#	54K 88525 1793•2 km•	180 3+7 22 SUN AZH# 90+2	-, 7
£ 3 2 177 3.465 CAM.NAD.= 3.355	36.71W 89 SWING: N. E. PART OF LA	: 341. PHAS	7 LUNAR ORB LO.F=80MH E= 68. EM15.ANG.= LAHSID	B&W ~ NONE 4. CAM•RAD.≈	54K 675000 1793•2 KM•	181 3+6 22 SUN AZM# 90+2	-,87
L 3   178 3+515 CAM+NAD+= 3+465	36.58W 89 Swings 4. E. Pari DF La	338. PHAS	E= 68. EHIS.ANG.=		54K 88575 1793+2 KM+	•	-
L 3 2 178 3.515 Сан. Нар. = 3.465	36.57W 89 *** **** 36.57W SWING N. E. PART OF LA	339. PHAS	E= 68. EHI5.ANG.= 4	B&W T NONE 4. CAM-RAD.m	54K 6750n0 1793•2 KM•	179 3+7 22 SUN AZM= 90+1	-,87
E 3 1 179 3+565 E CAM+NAD+= 3+455	36.44W 89 *** **** 36.45W SWING* N. E. PART OF LA	336 PHAS	E= 68. EMIS.ANG.=	B&W T NONE 4. CAM+RAD+#	54K 88575 1793+2 KH+	176 3+8 22 SUN AZM= 90+1	-, 7
E 3 4 179 3•565 CAM•NAD•= 3•455	36.43# 89 *** **** 36.44# SWING= N. E. PARF OF LA	337. PHAS	E= 68. EM15.ANG. # 4		54K 675nn0 1793+2 KM•	•	
L 3 1 180 3.625 CAM-HAD-# 3.565	36.30W 89	334. PHAS	E= 68. EHIS.ANG.=	B&W - NONE 4• CAM•RAD•≔	54K 88525 1793+2 KH+		
į 3 2 ±80 3+625 Cam+NaD+≖ 3+50S	36.29% 89 *** **** 36.30% 5WING= N. E. PART OF LA	335. PHAS	E= 68. EMIS.ANG.#	B&W - NONE 4. CAM-RAD-W	54K 675000 \$793•2 KH•	-	
	43.50% 90 00° 000 93.28% SWINGE NORTHERN PART OF LA	366. PHAS	E= 68. EHIS+ANG.= 21		53K 86885 1792+2 KM+		
L 3 2 181 2.225 CAM.HAU.= 1.665	43.49W 90 000 0000 43.28W SWING= NORTHERN PART OF LA	360. PHAS	E= 68. EMIS.ANG.= 1		53K 662500 1792+2 KM+		
L 3 1 187 2.285 CAM.NAU.# 1.7uS	43.35W 90 00° 0000 43.15W SWING= NORTHERN PART OF LA	359. PHAS	E= 68. EHIS.ANG.# 26	B&W - NONE B. CAM-RAD-=	53K 868R5 1792•2 KH•		
L 3 2 182 2+285 CAM+HAU+# 1+71S	43.35% 90 sainga 43.19% sainga Nurihern Part of La	359. PHAS	E = 68. FM15.ANG. = 15	B&W - NONE 9. CAM-RAD-#	53K 662500 1792•2 KH•	200 18.9 17 SUN AZH# 90.8	88

SIUN	RULL	UR LAT Ain	•	ORB GET N TIMES-) (I=EST)	KK M SEC			RA-LENS OR Sensor Type	FILH-E	XPOSURE AND FILTER	TUDE	PRIN. PT.	ĄZ	Ł T ANG+ FR. Vert	ANG.	LAD.
ί3	1 183 CAH+HAD	• R 1.76S	43.01%	SHINGS	<b>359</b> °	PHASE=	68.	ORB HI. 610MM Emis.ang.# 2	86# 0•	" NONE	53K 1792+2	86885 KM+	199 SUN	19-0 AZ'iw	17 90•8	10
ί3		- 1.765	43.00W		359.	PHASE*	68.	ORB LO+F±80MM EMIS×ANG+# 1								
լ 3		* 1.815	42.87W		358.	PHASE=	68.	UR6 HI. 610HH Emis.ang.= 2		* NONE CAM+RAD+=						10
įβ		. 1.815	42.87W		358.	PHASE =	68.	ORB LO+F=BONM EHIS+ANG+= 1								-,88
ί3			44.528			PHASE #	68.	ORB H <sup>]</sup>		" NONE						-,••
լ 3			44.52#		- l •	PHASE	68.	OR8 LO.F#BOMM EMIS+ANG+# 1		→ NONE CAM+RAD+=				-		-,00
L 3	1 186 CAN+NAD	2+355 •= 1+985	44.398	91 *** *** SWINGS PART OF L	. U.	PHASE =	68.	ORB HI. 610MM EMIS:ANG.= 1	96W 3.	- NONE	54K 1793+2	885 <i>7</i> 5 KM•	201 SUN	12+7 AZH#	18 90•8	-, 9
L 3			44.38n		• i •	PHASE=	68.	ORB LO.F=80MH EMIS.ANG.= 1		= NONE Camerade=						-,88
<b>L</b> 3			44.25%		<b>360</b> ⋅	PHASE =	68.	QRB HI. 610MM Emisoang.= 1								
رن			94.29%		= (j•	PHASE=	68.	ORB LO.F=80MM Emis.ang.= 1		= NGNE CAM+RAD+≠						
լ 3			44.116		- 759.	PHASE=	68.	ORB HI. 610MM EMIS.ANG.= 1								
įŝ			44+110		359.	PHASE=	68.	NRB LO∗F≖BOMM L ≖•BNA•Z1M3								

и 210и 412	MAG FR. ROLL HA	PHOTO PE Or late In	CONG.	GET GM TIMES-HR M I=ESTIMATE	T M-DA-YR C Sec U)	AMERA-LENS OR Sensur Type	FILM≈EXPOSURE AND FILT∈R	TUDE PRIN.		F₩D. Lap
ί 3	E 189 CAM-HAD-	2.515 * 2.135	43.98%	>#ING= 358	403 2+22+67 LUN + PHASE= 6 LETRONNE FLAMST	B. EMISTANG.# 1	BEW + NOME 3. CAM-RAD-#	54K 48525 1793•2 KM+	199 12+7 18 SUN AZH= 90+7	-, 9
ί 3	Z 189 CAM-NAD-	2+515 • 2+135	43•97W	Swing= 359	VOJ 2-22-67 LUN • PHA5E= 6 TETRONDE,FLANST	B. EHIS.ANG.= 1	B&W = NONE 3. CAM+RAD.=	54K 675ano 1793+2 KH+	199   2+6 18 5UN AZM# 90+7	-,88
įβ	1 190 Camemade	2.565 = 2.185	43.844	S#   NG = 358	405 2-22-67 LUN • PHASE= 6 Letronne Flahst	B. ENIS.ANG.= 1	95W - NONE 3. CAM-RAD-=	54K 88525 1793+2 KM+	198 12+7 18 SUN AZM= 90+7	-, 9
L 3	2 196 Camenade	2.565 2.185	43.83#	>#!NG= 358	4135 2~22~67 LU <sub>R</sub> • Phase= 6 Letronne <sub>•</sub> Flamst	B. EMIS.ANG.= 1	B&W - NONE 3. CAM+RAD+=	54K 675090 1793+2 KM+	199 12+6 18 SUN AZM= 90+7	~,88
ι 3	1 191 Can-Had-	2+625 = 2+235	43.70#	5#ING= 357	467 2-22-67 LUN • Phase= 6 · Letronne Flamst	B. EMIS.ANG.# 1	B&W - NONE 3. CAM-RAD.=	54K 8A525 1793+2 KM+	197 12+7 18 SUN AZM# 90+6	-, 9
ιä	2 191 CAM+NAD+1	2+625 = 2+245	43.698	5wing# 357	407 2-22-67 LUN. • PHASE= 61 LETRONNE,FLAMSTI	. EMIS.ANG.= 1	B&W = NONE 3. CAM•RAD•±	54K 675000 1793•2 KM•	198 12+6 L8 SUN AZH= 90+6	-,88
L 3	I 192 CAMEHADA	2+675 = 2+285	43.57W	S#1NG= 356	410 2-22-67 LUN • PHASE= 6: LETHONNE.FLANST(	B. EMIS.ANG. # 1	B&W = NONE 3. CAM•RAD•≡	54K 08525 1793+2 KM+	197 12+7 18 SUN AZM= 90+6	-, 9
ι 3	Z 192 CAM-NAD-	4+675 = 2+295	43.56#	SwinG# 357	410 2-22-67 LUN: • PHASE= 6: Leironne,flahSt(	B. EHIS.ANG. = 1	96W ™ NONE 3. CAM+RAD+#	54K 675000 1793•2 KH•	197 12+6 18 SUN AZM# 90+6	-,88
į 3	1 193 Callenade:	2.725 2.345	43.43%	Swing= 356	412 2+22-67 LUN. • PHASE= 6: LETRONNE,FLANST!	B. EHIS-ANG. 1	B&W = N∩NE 3. CAM•RAD•æ	54K 88525 1793•2 KM•	196 12+7 18 SUN AZH# 90+6	-, 9
ί 3	2 193 CAM-NAD+	2+725 = 2+345	43.42n	\$WING= 356	412 2-22-67 LUN • PHASE= 6: LEIRONNE.FLAMST(	9. ENIS-ANG. = 1	86W - NONE 3. CAM-RAD-=	54K 475nn0 1793+2 KM+		
į š	I 194 Cam-Nad-	2+785 = 2+395	43.294	541NG= 355	414 2-22-67 LUN • PHASE= 6 · LETHONNE FLAHSTI	B. EMIS-ANG.= L	R&W - NONE 3. CAM+RAD.=	54K 88525 1793+2 km+	195 12+7 19 SUN AZM# 90+6	-, 9
ι 3	2 194 CAM+HAD+	2.785 2.395	43.28#	Sw NG= 355	415 2-22-67 LUN; • PHASE= 60 LEIRONNE.FLANSTI	3. EM15.ANG.= 1	BG# = NONE 3. CAM•RAD·=	54K 674ПОО 1793•2 кн•	196 12.7 19 SUN AZH# 90.6	-,88

#15 510N #	MAG FR.PHUIU PH RULL UR LAI. H MAIN H	LONG. #	GET GHT TIMES-HR M SEC (=ESTIMATED)	М-DA-YH САН	ERA-LENS OR Sensor Type	FILH-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN- M=N+MI PT- K=KM+	TILT SUN AZ ANG. ANG. FR. VERT	F#D. LAP
L 3	1 195 2.835 CAM.NAD.= 2.445	43.16#	••• •••• 052417 Swing= 354. Of Lac 75 LE!	PHA5E≠ 68.	ORB HI. 610HH   EI =. NA. 21H3	RGW - NONE CAM-RAD-#	54K 88525 1793•2 KM•	195 12+7 19 SUN AZM# 90+5	<b>-,</b> 9
ί 3	2 195 2.83S CAM-NAD-# 2.44S	43.15#	••• •••• 052417 Swing= 355 Of Lac 75 Let	PHASE# 68.	URB LO.F#90MM : EMIS*ANG.# 13	B&W - NONE • CAM+RAD•=	54K 675000 1793•2 KM•	195   12+7 19 SUN AZM# 90+5	-,8R
ι 3		43.02#		PHASE# 48.		. CAM.RAD.=			
L <b>3</b>		43.01%		PHASE= 68.		B&W → NONE • CAM•RAD•≃			
ιj		42 . 88W		PHASE= 68.		B6W - NONE • CAM+RAD+=			
ι 3		42.874		PHASE= 68.		B&W → N∩NE • CAM+RAD•→			
٤٦		42.75#		PHASE# 68.		BEW - NONE • CAM+RAD-+			
L 3		42.748		PHASE= 68.		86# " NONE • CAM•RAD•#			
ιä		42.614		PHASE= 68.		BGW - NONE CAH+RAD+=			
		42-60*		PHASE# 68.		BEW "NUNE . CAM+RAD.#			
<b>. 3</b>	1 200 3-135 CAH-NAD+= 2-695	42.48%	••• •••• 052429 Swings 351• OF LAC 75 LE	PHASE= 48.	ORU HI. 610MM EMIS.ANG. = 13	. CAM-RAD-=	95K 9(164 1794•2 KH•	192 12+8 19 SUN AZM# 90+4	-,10 4
į, a	2 200 3+105 CAM+HAD+# 2+705	42.55W 91 42.46W N. N. PART	*** **** 052429 Swing= 351. UF LAC 75 LE	2-22-67 LUNAR PHASE= 68. IHONNE.FLANSTO	URB LO.F=BOMM EMIS.ANG.= 13	REW = NONE • CAM•RAD•=	55K 687500 1794•2 KH•	172 12+8 19 SUN AZH# 90+4	<b></b> 88

SION RULL OR LAT. #	GET GHT M-DA-YR CAMERA-LENS OR TIMES-HR M SEC SENSOR (ImeESTIMATED) TYPE		ALTE SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. MMN.M! PT. FR. LAP K*KM. VERT S. %
CVID+MVD+= 3+012 47+424	++° ++*+ 085312 2=22-67 LUNAR ORB HI: 610HI Swing= 350: PHASE= 69: ENIS:ANG:# T OF LAC 75 LETRONNE:FLANSTO	H B6W - NONE S. CAM-RAD-W	56K 91803 190 4+6 20 -+** 1795+2 KM2 SUN AZH# 90+3
CAM+NAU+= 3+475 43+44%	••• •••• 085312 2-22-67 LUNAR ORB LO.F=80H Swing= 350• Phase= 69. Emis.ang.= I UF Lac 75 Letronne,Flansto	4 R&W - MONE 5. CAMERADE	56K 700000 191 4.5 20 1795-2 kH- SUN AZH= 90-3
CAH+HAD+= 3+125 43+314	••• •••• 085315 2-22+67 LUNAR ORB HI. 610H Swing= 348• Phase= 69. Emis•ang.= Tuf Lac 75 Letronne.flamstd	1 B&W = NONE 5. CAM-RAD.=	56K 91803 188 4+6 20 12 1795+2 KM+ SUN AZM+ 90+3
CAM-NAD-= 3-125 43-31W	••• •••• 085315 2+22-67 LUNAR ORB LO.F=80H Swing= 349• Phase= 69• Emis.ang.= OF Lac >5 Lethonne, Flamsto	1 BGW - NDNE 5. CAMerades	56K 780000 189 4.5 2088 1795.2 KM. SUN A7M= 90.3
CAM+NAD+# 3+175 43+18w	••• •••• 085317 2-22-67 LUNAR ORB HI. 610HI Swing= 346• PHASE= 69. EMIS•ANG•= OF LAC 75 LEIHONNE•FLANSTD	1 B&W W NONE 5. CAM-RAD.=	56K 91803 196 4.6 21 -,10 1795+2 KH+ SUN AZH= 90+3
CAM.NAD.= 3.175 43.17W	••• •••• 085317 2-22-67 LUNAR ORB LO.F#80HP Swing# 397• Phase# 69• Emis•ang.# OF Lac 75 Letronne,Flamsto		56K 7000nC 187 4+6 2188 1795+2 KM+ SUN A7M# 90+3
CAH.NAU.= 3.225 43.04W	••• •••• 085319 2-22-67 LUNAR ORB HI. 610MM SWING= 344. PHASE= 69. EMIS•ANG.a OF LAC 75 LETRONNE,FLAMSTO	1 B&W = NONE 5. CAH+RAD+=	56K 71803 184 4.7 21 8 1795.2 KH. SUN AZM# 90.2
CAM.NAD.# 3.225 43.83W	*** *** 085320 2-22-67 LUNAR ORB LO.F=80MM Sming= 345. Phase= 69. Emis.ang.= Of Lac 75 Letronme, Flamsto		56K 700000 185 4.6 2187 1795+2 KM+ SUN AZM= 90+2
CAM.NAD.= 3.155 45.198	••• ••• 122142 2-22-67 LUNAR ORB H1. 610HP SWING= 181. PHASE= 83. EHIS.ANG.= 3 IT OF LAC 75 LETRONNE.FLAMSTD		56K 9180 <sup>3</sup> 21 79.8 21 -, 1795.2 KH. SUN AZHE 90.7
CAM-HAD-= J-155 45-18W	*** **** 122142 2-22-67 LUNAR ORB LOSE#888H SWING# 181* PHASE# 82* EMIS*ANG.# 3 PHASE# 82* EMIS*ANG.# 3		56K 700000 21 29.9 21 1795-2 KM- SUN AZM= 90.7
CAH+NAD+= 3.215 45.03W	*** *** 122145 2-22-67 LUNAR URB HI. 610MM Swing= 181. Phase= 83. Emis.ang.= 3 It Of Lac 75 Letronne.flamstd	I R&W → NONE II ← CAM+RAD+#	56K 91803 22 29+8 21 -, 9 1795+2 KH+ SUN AZM# 90+7
CAM-NAD * 3.215 45.024	*** *** 122145 2=22=67 LUNAR ORB LU,F=80MM SWING= 181. PHASE= 92. EMI5.ANG.= 3 IT OF LAC 75 LETKONNE,FLANSTU	IRGN - NONE II- CAM-RAD-#	56K 700000 22 29+9 21 -,88 1795+2 KM+ SUN AZM= 90+7

<b>4</b>	# MAIN LONG	· (I=ESTIMATED)	SENSOR Type	AND FILTER	TUDE PRIN. MEN.MI PT. KEKM.	VERT & &
į	1 207 2-285 44-46w CAM-NAO-= 3-275 44-87 NURTHERI	93 ••• •••• 122148 2-22-67 N SWING= 182• PHASE N PART OF LAC 75 LETRONNE,FL	' LUNAR ORB HI. 610MH 868 # 83. EMIS.ANG.™ 31. AHSTO	MONE CAM+RAD+=	56к 918л3 1795•2 <sub>К</sub> М•	22 29+8 21 9 SUN AZM# 90+6
( 3		93 ••• •••• 122148 2-22-67 SWING= 181. PHASE PART OF LAC 75 LETHONNE.FL	E DO. EMIS.AND - 14		56K 70anan 1795+2 KM+	22 29.9 2188 SUN AZH= 90.6
į j		93 ••• •••• 122 51 2-22-67		CAM+RAD+=	57K 93443 1796+2 KM+	22 79+9 21 9 StiN AZH# 90+6
<b>L</b> 3	AUTOMATICAL SADSD A4. VOL	93 ••• ••• 122151 2-22-67 541NG= 182• PHASE PART OF LAC 75 LETHONNE•FL	m 82. CMIS. No a 11		57K 712500 1796+2 KH+	22 29.9 2188 SUN AZM# 70.6
Ł 3	209 20405 44012W CANONADO = 30195 44055W NORTHERN	93 ••• •••• 122153 2-22-67 Swing= 182• Phase: Part Of Lac 75 Letronne,fl.	L <sup>u</sup> nar oke hi. 610mm bew * 83. Emis.ang.= 31. Amsto	T NONE	57K 93443 1796+2 KH+	23 29.9 21 9 SUN AZH= 90.6
ί 3		93 *** *** 122154 2-22-67 SWING# 182. PHASE PART UF LAL 75 LETRONNE,FL	- 03		57K 712590 1796+2 KM+	22 29.9 2187 SUN AZM= 90.6
į 3	ANTICE COLOR ANTIST	93 *** **** 122156 2-22-67 SWING= 183. PHASE: PART OF LAC 75 LETRONNE.FL	• 01 CHIC -N 11		57K 93443 1796+2 KH+	23 29.9 22 9 Sun Azm= 90.6
	NURTHERN	93 *** **** 122156 2-22-67  5wing= 182. Phase: Part Of Lac 75 Letronne, fl.	* 82. EMIS.ANG.# 31. AMSTO	CAM.RAD.	57K 712590 1796+2 kH+	23 29.9 27, A.B. Sun Azm- 96.6
	NH3H1H0H	93 *** *** 122159 2+22-67 SHING= 183. PHASE* PART OF LAC 75 LETRONNE,FLA	* 83. EHIS-ANG.= 31. Ahsto	CAM+RAD+#	57K 93443 1796+2 KH+	23 29+9 27 8 SUN AZH= 90+5
t. 3		93 *** *** 122159 2-22-67 SHING= 183. PHASE* PART OF LAC 75 LETRONNE,FLA	R 02. EMIS.ANC 11		57K 712500 1796+2 KM+	23 29+9 2287 SUN AZM# 90+5
	NUKTHERN	93 *** *** 122202 2-22-67 SWING= 183. PHASE= PART OF LAC 75 LETRONNE, FLA	· 83. EMIS.ANG.= 31. IMSTO	CAH+RAD+#	57K 93443 1796+2 KM+	23 29.9 22 9 SUN AZM# 98.5
ز غ	CULL C125 25212 44+824	93 *** *** 122202 2-22-67 SWINGE 183. PHASEE PART OF LAC 75 LEIRONNE,FLA	E BO. ENICANO - SE	- NONE	57K 712500 1796•2 •M•	23 29+9 22 -,47 SUN AZN# 90+5

HIS MAG FR, PHUID PRIN, PT. URB FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. GET GHT M-DA-YR CAMERA-LENS OR UR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. FR. HAIR LONG. II-ESTIMATED) TYPE MEN.H; PT. LAP VERT K=KH. 8, 8 L 4 1 132 9+145 29-59# 24 \*\*\* \*\*\*\* 172507 5-20-67 LUNAR ORB H1 4 610MM B6# - NONE 2717K 4454098 1 3+4 19 -+50 CAM-MAD = 14-425 29-69# SainG= 188. PPASE= 72. EMIS-ANG.= 9. CAH+RAD+# 4456+2 KH+ SIIN AZH# 86+2 & LAC 94 PITATUS.H.NU LAC 76 RIPHAEUS MI FRAU MAURO : LAC 75 LETRONNE FLAHSTD : LAC 93 H.HUHOR..GASSENDI

- L 4 I 149 15-055 48-76W 27 \*\*\* \*\*\* 652940 5-22-67 LUNAR ORB HI: 610MM B&W NONE 2720K 4459016 127 \*7 18 -.49

  LAM-HAD-\* 14-405 49-64W SWINGE 313- PHASE\* 74- EMIS-ANG-\* 2- CAM-RAD-\* 4459-2 KM- SUN AZM\* 84-4

  LAC 75 LETHUNNE.F : LAC 74 GRIMALDI.B : LAC 92 BYRGIUS-DA : LAC 93 M-HUHOR--GASSEND1 & LAC 56 HEVELTUS-REIN
- L <sup>4</sup> 1 150 12-7JN <sup>4</sup>9-29W 27 +++ +++ 060012 5-22-67 LUNAR ORB HI, 610MM B6W NONE 2668K 4373770 23<sup>4</sup> 1-3 18 -+,23 CAM-NAD-= 13-91H 47-59W 5WING= 48+ PHASE≠ 70+ EMIS-ANG+= 3+ CAM-RAD+= 4407+2 KM+ SUN AZM= 93+5 LAC 57 KEPLEK+LHC 1 LAC 56 HEVELIUS,R 1 LAC 39 ARISTARCHU 1 LAC 38 SELEUCUS,SCHROTER V+ 6 LAC 75 LETRONNE+FLAM
- € 4 2 167 42-015 60-70M 30 \*\*\* \*\*\* 170012 5-23-67 €UHAR OHB COFF#80MN B6W NONE 3009K 37612500 95 5+0 17 --\*\*\*

  CAN-NAD-= 41-825 72-48# Sulug= 292 PHASE= 86 EMIS-ANG= 14 CAM-RAD-= 4748-2 KM SUN A7M= 72+6

  LAC 11J SCHICKARU-LACROIX ; ⋈>1/2 MUON SPHERE ; LAC 144 SCOTT-5-POLE NEARSIDE >0 €AC 55 VASCODEGAMMA

Ħ	# MAIN #	LUNG.	(ImESTIMATED)		TYPE		TUDE PRIN. M=N.HI PT. K=KH.	AZ ANG. ANG. FR. VERT	£40. 447 8. 8
ι 5	1 169 3+975 CAM+HAD+= 3+945		*** **** 072333 Swing= 171* UF LAC 75 LE		ORB HI. 610MM EMIS+ANG.#	B6# - NONE 8. CAH+RAD+#	105K   172131   1844+2 <sub>K</sub> m+	265 7.9 15 SUN AZH# 87.5	
į 5	2 169 3.965 CAH.HAD.= 3.935	35.834	*** **** 072333 SWING= 172* OF LAC 75 LE	PHASE = A7.	ORB LU.F=80MM EMI5.ANG.=		105K 13125/10 1844+2 KM+	266 8+0 15 SUN AZH# 87+5	-,00
į b	1 170 3.685 CAM-NAD-# J.665	12:804	*** *** 072338 Swing= 173. Of Lac 75 Let	PHASCE 47.	ORB HI. AIOMH EMIS.ANG. = 1	B&# " NONE B. CAM«RAD»#</td><td>105K 172131 1899+2 kH+</td><td>247 7+8 15 SUN AZM# 87+5</td><td>-, 6</td></tr><tr><td>L 5</td><td>2 170 3+675 CAD+NAD+* 3+655</td><td>35+80W</td><td>••• ••• 072338 Swing= 174• OF Lac 75 Let</td><td>PHASE AT</td><td>ORB LO.F#80HM EMIS#ANG.# 8</td><td></td><td>105<sup>K</sup> 13125nn 1844+2 KH+</td><td>268 8+0 15 SUN AZM# 87+6</td><td>-,87</td></tr><tr><td>ι 5</td><td>1 171 3+395 CAM+NAD+= 3+385</td><td>35.78*</td><td>••• •••• 072343 Swing= 175• of lac 75 let</td><td>PHASE AT.</td><td>ORE HI. 610MM EMIS-ANG.= 6</td><td>. –</td><td>1<sup>0</sup>5K 172131 1844+2 KH+</td><td>269 7+8 15 SUN AZN# 87+6</td><td>-, 7</td></tr><tr><td>ι 5</td><td>2 171 3+385 CAH+NAD+# 3+385</td><td>35.78#</td><td>••• ••• 072343 Swing= 176. UF Lac 75 Let</td><td>PHANCE AT</td><td>URB LO.F=80MH EMIS-ANG.= 6</td><td>BSW - NONE CAMORADOW</td><td>105K   13125nu 1844•Z KH•</td><td>270 7.9 15 SUN AZH# 87.6</td><td>-,87</td></tr><tr><td>į b</td><td>1 172 3+1US CAM+HAD+# 3+11S</td><td>35•76W</td><td>*** **** 072348 Swing= 177* OF Lac 75 Let</td><td>PHASE AT.</td><td>ORB HI. ALDMM EMIS.ANG. # 8</td><td></td><td>1°5K 172131 1844+2 KM+</td><td>271 7+8 15 SUN AZMB 87-7</td><td>⊸• ક</td></tr><tr><td>ί 5</td><td>2 172 J+345 CAM+NAD+= 3+1US</td><td>35 · 76 W</td><td>*** **** 072348 Swing= 178* UF LAC 75 LEI</td><td>PHASE 47.</td><td>ORO LO.F=80MM EMIS-ANG.= 8</td><td></td><td>105K 13125n0 1844•2 KM•</td><td>272 7+9 15 SUN AZM# 87+7</td><td>-,88</td></tr><tr><td></td><td>I 1/3 3+855 CAM+HAD+# 3+705</td><td>N. E. PART</td><td>OF LAC 75 LET</td><td>PHASE 92. HONNE,FLAMSTD</td><td>EMIS.ANG.= 19</td><td>• CAM+RAD+=</td><td>105K   172131   1944+2 KH+</td><td>97 18+0 16 SUN AZH# 87+4</td><td>-,••</td></tr><tr><td>ι 5</td><td>2 173 3.845 CAM.NAD.= 3.7US</td><td>3/*5611</td><td>900 0000 103435 Swings 30 Of Lac 75 Let</td><td>PHASE DO</td><td>ORB LO.F. ROMM EMIS.ANG. = 19</td><td></td><td>105K   13125nn 1844•2 KH•</td><td>97 17+8 16 SUN AZM# 87+4</td><td>-,••</td></tr><tr><td>į 5</td><td>1 174 J+555 CAM+MAD+= 3+42S</td><td></td><td>900 103440 Sming= 30 UF LAC 75 LET</td><td></td><td>ORB HI. 610MH EMIS.AMG.= 19</td><td>B&W = NONE • CAM+RAD+=</td><td>105K 172131 1844+2 kH+</td><td>96 [8+0] [6 SUN AZH= 87+5</td><td>-, 7</td></tr><tr><td>ι 5</td><td>2 174 3.545 CAH-NAD+* 3.415</td><td>37-548</td><td>00 ++** 103440 Switter 3+ Of Lac 75 Let</td><td>PHASE 92.</td><td>URB LU.FRBOMM EHI5.ANG.# 19</td><td>R6+ ← NONE • CAH+RAD•=</td><td>105K   13125nn 1844+2 KM+</td><td>96 17+8 16 SUN AZM= 87+5</td><td>87</td></tr></tbody></table>			

510N	MAG FR,PHUTU PR RULL OR LAT. # MAIN #	LONG.	GET TIMES=HR (I=ESTIM)	GMT M SEC ATEDI	H-DA-YK	CAME	RA-LENS OR SENSOR TYPE	FILM-E	XPOSURE AND FIL		3GUT H=N+HI	ALE AT PRING !	Ą <b>Z</b>	FR.	ANG.	F#D.
į S	1 175 3+255 CAM+NAD+= 3+135	36.40W 72 37.51W N. E. PART	>,,   NG =	2 •	PHADE	72.	ORB HI. AIOMM EMIS.ANG.= I		CAH+RAD	•=	1844+5	172131 KH+ :	SUN	AZM#	87•A	
	2 1/5 3+245 CAH+HAD+# 3+135	J7.51W No E. PART	SWING= OF LAC	75 LE	PHASE = RUNNE .FLAM	STD.	FUID-WAR- 1	•	CAMeRAD	) • <b>=</b>	1844•2	1317500 KH•	SUN	¥ Z H =	H F 4 6	
	1 176 2-955 CAM-NAD-= 2-855	37.49% N. E. PART	OF LAC	75 LET	HONNE . FLAM	STD	Cilia o Mila de									
	2 176 2.945 CAM.NAD.= 2.855	17.49W N. E. PART	OF LAC	75 LE	RONNE, FLAP	STD	Eutaskuds. 1	•	•							
	1 179 16=215 CAM=NAD== 16=67S NORTHERN PA	40+37W R7 OF LAC 93	**************************************	GASSE	401	720	6 SOUTH	ERN PAR	T OF LA	c 75 i	_FTRONNE	.FLAHSTO	,			
	2 179 16+205 Cam-Nad+= 16+075 Nonthern Pa	40.36W RI OF LAC 9:	= DNIAC • ACHOHOR :	.GASSE	101	52.	& SOUTH	ERN PAR	T OF LA	Ç 75 I	ETRONNE	E,FLAHSTO	•			
	1 180 14.845 Cam.nad.= 14.805	40+26# Southern Pai	#ING# CAL PO TS	2. 75 LE	#HADE# THONNE .FLAI	45 t D	Eul De Multer	•	CANTAG							
£ 5	2 180 14.835 Can.Nad.= 14.795 Southern Pa	39.87% 73 1 40.26W RT OF LAC 7	P FELKONNE ZMING=	134217 2. E.FLAMS	8-17-67   Phase= 10	LUNAR 82.	ORB LO.F=80MI EHIS+ANG+= & NORTI	N B&# 6. HERN PAH</td><td>CAM•RA Hy of La</td><td>NONE D•≡ C 93</td><td>122K 1861+2 H.Huhor</td><td>1525000 KM+ +-GASSENI</td><td>98 SUN DI</td><td>5+1 AZM#</td><td>4 14 84•A</td><td>-,51</td></tr></tbody></table>								

TUTAL PHOTOS IN THIS GROUP # 161

REPADDUCIBILITY OF THE ORIGINAL PAGE IS POOR

51K 607500 148 1+9 32 ++87

- NONE 51K 637500 146 2+0 33 -.88

SUN AZH# 86+2

NONE

PHASE= 58. EMIS-ANG. 2. CAM-RAD. 1790-2 KM. SUN AZM# 86-2

CAH-RAD-# 1798-2 KM+

THESE TWO TYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN:

OF DEGRADED PHOTOS,

SE ALMOST UNUSABLE PHOTOS,

ITLIT ANGLES; AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

L\*\*).(\*).(\*).(\*). OR(\*\*).\*\* NO INFO

WE APPROXIMATELY

NEXT TO MAGE, BEBRACKET HOUNTED; GE CAM. ON GROUND

CAMERA-LENS AS FOLLOWS:

SW.A. \*\*\* SUPER WIDE ANGLE LENS: EKTREKTAR 2.8 LENS:

HSB\*\* HASSELBLAD;

MAURE HAUNER;

ZP.ZB.ZS \*\*\* ZEISS LENS(PLANAR.BIOGEN.SONAR):

FOCAL LENGTH(MM) & MAX.F-OPENING

10\*\* AS EXPOS SPEED \*\*\* 1/1000 (OR \*\*\*\* TWO ZENOS)

FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE 15 THE XXX OF 1/XXX ON ORIG.NEG. AT PP 1F ALT NOT O.D.

ALT: SCALE AT TILT SUN SIDE. CAHERA-LENS OR MEXPOSURE GET GHT H-DA-YR AND FILTER TUDE PRIN. AT ANG. ANG. FRD. MIS MAG FR.PHUTU PRIN.PT. URB SION HULL OR LATA N TIMES-HR R SEC SENSOR FR. LAP enami PT. TYPE (ImESTIMATED) LUNG. 8, 8 VERT MAIN Y=KM. L 1 2 137 1+25N 19+83W 78 ++\* ++\*\* 061431 8=26+66 LUNAR ORB LO+F=80MM 86% - NONE 53K 6625ND 258 44-2 11 -+\*\* SWING# 70. PHASE# 34. EMIS.ANG.# 46. 6 NORTHERN PAR LAC 74 RIPHAEUS HT.FRAU MAURO CAM-NAU. # 1-59N 18-15W SOUTHERN PART OF LAC SE COPERNICUS, REINHOLD - HONE 46K 57500D 193 12+1 17 ++\*\* L 1 2 139 U+27N 19+27W 81 ++\* ++\* 163439 8=26+66 LUNAR URS LO+F=80HM 86\* CAM-RAD-# 1785+2 KH+ SUN AZH# 88+5 CAM-HAD-= .59N 19-19H SWING= 11. PHASE= 7G. EMIS-ANG.= 13. 6 N. E. PART OF LAC 74 RIPHAEUS MT.FRAU MAURO S. L. PART OF LAC SO COPERNICUS.REINHOLD - NONE 46K 575080 L90 18+7 18 -+++ L 1 2 140 U-104 20-198 82 -- -- 200112 8-26-66 LUNAR ORB LO-F-80MM B68 CAM-RAD-= 1785+2 KH+ SUN AZM= 88+4 Sainga 8. PHASE 70. EHIS.ANG. 11. & NORTHERN PART OF LAC 74 RIPHAEUS HT FRAU HAURO WP1+US HBL. =- CAN.MA. SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD - NONE 47K 587500 195 9+5 17 -+++ L 1 2 149 U-19N 24-27W 84 ++\* ---- 025340 8-27-66 LUNAR ORB LO-F=80HH B6W CAH+RAD+# \$786+2 KH+ SUN AZH# 88+5 CAM-HAU-= -44N 24-2Um Sming= 14. PHASE= 70. EHIS-ANG.= 10. 6 No No PART OF LAC 74 RIPHAEUS HT.FRAU HAURO S. M. PART OF LAC 58 COPERNICUS, REINHOLD - NONE 44K 550000 1 14.9 21 -. .. £ 1 2 151 U-105 23-64W 86 \*\*\* \*\*\* 094725 8-27-66 LUNAR ORB LO.F=80MM R6W SUN AZHE BR.3 CAH+RAD+# 1783+2 KH+ SWING= 189. PHASEM 70. EMIS.ANG.M 15. CAM-NAD-= -495 23+65# & SOUTHERN PART OF LAC SH COPERNICUS, REINHOLD H. O. PART OF LAC 76 RIPHAEUS HT, FRAU HAUHO - NONE 51K 637500 155 1+7 32 -+\*\* L | 2 | 157 3-465 23-224 92 \*\*\* \*\*\*\* 062818 8-28-66 LUNAR OR8 LO.F.BOMH 86# CAM-RAD-= 1790+2 KH+ SUN AZH# 86+3 CAM-NAD-= 3-025 23-24# Saing= 323. PHASE= 58. EMIS-ANG.= 2. N. W. PART OF LAC 76 RIPHAEUS NITERAU MAURO - NONE 51K 637500 152 1+8 32 -+8A E I 2 158+ 3+095 23+09% 92 +++++ D62821 B-28-66 LUHAR ORB LO.F=80HH R&R SUN AZH# R6+2 CAM+RAD+# 1798+2 KM+ PHASE 58. EMIS.ANG. 2. CAM-NAD-= 3-045 23-11W Swing= 319.

No do PART OF LAC 76 RIPHAEUS MISERAU HAURO

N. S. PART OF LAC 76 RIPHAEUS MI.FRAU MAURO

L 1 2 159\* 3+125 22+95# 92 ++\* ++\* U62823 8-28-66 LUNAR ORB LO.F=80MM R6W

L 1 2 160+ 3+145 22+828 92 \*\*\* \*\*\*\* G62825 8+28-66 LUNAR ORB LU-F=80MM 85%

CAN-MAD. = 3-165 22-85% SHING= 313.

CAM-NAD- 3-075 22-98# SWINGS 316- PHASES 58. EHIS-ANG.S 2-

CAMONADO 30435 210234 SWINGE 2930 PHASEE 580 EMISOANGOE 30 NURTHERN PART OF LAC 76 RIPHAEUS HTOFRAU MAURU

8 1 G W	•	FONG.	TIMES-HR M SEC (I=ESTIMATED)		CAMERA-LENS OR Sensor Type		AND FILTER	ALTI SCALE A TUDE PRIN MWN+MI PT K#KM+	. A <sup>7</sup>	FR. VERT	£₩D• LAP %• %
į 1			*** **** 06282 Shing= 311* UF LAC 76 R		LUNAR ORB LO.F#80MM = 58. EMIS.ANG.# ; .FRAU MAURO						
į i	2 162° 3.2uS CAH.HAD.# 3.15S		*** **** 06282 Swing= 308* UF Lac 76 R		LUNAR ORB LO.F=80MH = 58. EMIS.ANG.= ,FRAU MAURO	86# 2.	CAM+RAD+#		SIIN	Y SMm uper	
į į	2 163 3.235 CAM.NAD.= 3.185	22.41# 72	*** *** #6283	1 8-28-66 Phase	LUNAR ORB LO+F=80MH = 58= EMIS+ANG+=	864 2.	CAM+RAD+#	52K 6500 1791+2 KH+	5UN	Y\W= 90+1	
i, i	2 164 3+265 CAM+NAD+# 3+215	22+27W 92		4 8-28-66 PHASE	LUNAR ORB LO.F=80MH = 58. EHIS+ANG+=	86W 2.	CAM+RAD+=		506	I AZMm 86+1	l
<b>.</b> 1	2 165 3+295 CAH+HAD+= 3+235	22.14# 92		6 8+28-66 Phase	LUNAR ORB LO.F=80HH = 58. EHIS+ANG+=	86# 3.	CAM+RAD+=		SUF	Е Д∑М≖ Но∗і	ij
ı I	Z 166 3-315 Cam-NaD+# 3-265	22.00# 92	*** **** 06283	.8-28-6 PHASE	LUNAR ORB LO.F=80MH = 58. EMIS+ANG+=	3.	CAM+RAD+=	52K &500	Sul	I AZH± R6+I	9
L I	2 167 3.345 CAN.NAU.# 3.295	21.84# 92	U6284	66-88-8 94A9	LUNAR ORB LO.F.80MF	1 B&# 3.	CAH+RAD+#	52K 650 1791+2 KH+	SUI	1 VSHm goe	ย
C I	2 168 3:375 CAM:HAD:= 3:325	21.100	*** **** 0628* Swing= 298* T OF LAC 76	PH 4 2 E	S LUNAR ORB LO•F±BOMM E= 58• EMIS•ANG•= [•FRAU HAURO	1 BGW 3+	CAM-RAD-=	52K 65n 1791+2 KH+	SU	N AZM# 85+	9
	CAM-HAD+# 3-345	21.58% 92 ; 21.65% Nurthern PA	SWINGE 296.	45 8=28=66 PHA56 RIPHAEUS M	6 LUNAR ORG LO:F#80M6 E= 58. EMIS-ANG.# T:FRAU \AURO		¢AM+RAD+=	53K 662 1792•2 KM•	su	N AZM= 85.	9
įį	2 170 3.43S Lam.Nad.= 3.375	21.44% 92	*** **** 0628	47 8-28-64 Phasi	6 LUNAR ORB LO.F≖BOH Lm 58. EMI5.A'\5.=	3.	~ NON	E 53K 667 1792+2 KM+	500 12 SU	7 3+1 34 И ахи» 85+	a
įΙ	2 171 3+965 Cah+nad+# 3+40	21.29W 92	0628	50 8-28-6 Phas	6 LUNAR ORB LOSF#88M E# 58* EMIS*ANG**	Н ВЬW 3.	- Non Cam-rad-=	E 53k 662 1792•2 KM•	500 12 SU	6 3+2 34 R AZH= 85+	B
ι 1	2 172 3+495	31 154 95	GAZR	52 8-28-6	6 LUNAR URB LO:F=ROM E= 58. EMIS.ANG.=	H 86W		E 53K 662 1792+2 KM+	500 12 5L	5 3.3 3° N AYH# 85.	+ -,8 •8

۵. تو HIS HAG FR.PHOTO PRIN.PT. ORB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. HAIH LUNG. ( = ESTIMATED) TYPE M=N.HI PT. FR. LaP VERT 8. P K TKM +

- L 2 1 163 U-17N ZU-1DW 91 \*\*\* #\*\*\* B70350 II=24-66 LUNAR ORB HI. 610MM B&# NONE 51K 83607 10B 1-3 28 --\*\*

  CAM-HAD-= -19N ZU-13W SAING= 277- PH&SE= 63- EMIS-ANG== 1= CAM-RAD-= 1790-2 KH+ SUN A7M= 90-5

  SUUTHERN PART OF LAC 58 COPERNICUS\_REINHOLD & NONTHERN PART OF LAC 76 RIPHAEUS MT-FRAU HAURO
- L 2 I 164 U+14H 19+96W 91 000 007U352 II=24-66 LUNAR ORB HI, 61DMM 86W NONE 51K 83607 10R 1+5 28 -+ 6
  LAM+NAD+\* +16N 2U+DUN SWING= 276+ PHASE\* 63+ EMIS+ANG+\* 1+ CAM+RAD+\* 1790+2 KH+ 5UN AZM= 90+5
  SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD 6 NORTHERN PART OF LAC 75 RIPHAEUS MT, FRAU MAURO
- L 2 164 U-15H 19-95H 91 \*\*\* \*\*\* 07D352 II-24-66 LUNAR DR8 LO-F=80HH B6W NONE 51K 637500 103 I-5 28 --A7

  CAH-NAD-= -16H 19-99H SWING= 271- PHASE# 63- EMIS-ANG-= I- CAH-RAD-# 1790-2 KM- SUN AZM\* 90-5

  SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD 6 NORTHERN PART OF LAC 74 RIPHAEUS HT-FRAU MAURO
- L Z 1 165 U-11N 19-82° 91 \*\*\* \*\*\* 070355 11-24-66 LUNAR ORB H1, 610MM B6W NONE, 51K 83607 107 1+6 Z9 -+ 6
  LAM-NAD-= -13N 19-86 SWING= 275- PHASS= 63- EMIS-ANG.= 2- CAM-RAD-= 1790-2 KH- 5UN AZM- 90-5
  SOUTHERN PART OF LAC 58 COPERNICUS-REINHOLD 6 NORTHERN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO
- L Z 165 U-12N 19-81W 91 000 0400 070355 L1-24-66 LUNAR ORB LO-FEBORN BOW 7 NONE 51K 637500 IN3 1-6 29 --87
  CAM-HAD-E -13N 19-86W 5HINGE 27L- PHASE 63. EHIS-ANG. 20 CAM-RAD-E 1790-2 KM- SUN AZME 90-5
  SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD 6 NORTHERN PART OF LAC 76 RIFTAEUS MT, FRAU MAURO
- L Z I 166 0+08N 19+68N 91 \*\*\* \*\*\* 070357 II-24-66 LUNAR ORB HI 610MM B6N NONE 52\* 85246 107 1+7 29 -+ 6
  CAM-HAD+= -10N 19+73N SWING= 275, PHASE= 63, EMIS+ANG.= 2, CAM-RAD-= 1791+2 KM. SUN AZM= 90+5
  SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD 6 NORTHERN PART OF LAC 76 RIPHAEUS HT.FRAU MAURO
- E 2 2 166 U+U9N 19+67N 91 +++ +++++ B70357 11=24-66 LUNAR ORB LO+F=BOHH B&N NONE 52K 650000 103 1+8 29 -+87 Cam+NaD+= +1UN 19+72N SWING= 271+ PHASE= 63+ EHIS+ANG+= 2+ CAM+RAD+= /791+2 KM+ SUN AZM= 90+5 SOUTHERN PART OF LAC 58 €9PERNICUS,REINHOLD & NORTHERN PART OF LAC 7€ RIPHAEUS MI,FRAU MAURO
- L 2 I 167 U-USH 19-53W 91 000 0000 07U359 11-24-66 LUNAR URB H1, 610MM 86W NONE 52K 85246 10A 149 29 -6 5

  CAM-NAD-= -U7H 19-59% SWING= 274+ PHASE= 63- EMIS-ANG-= 2- CAM-RAD-= 1791-2 KM+ SUN AZM- 90-5

  SOUTHERN PART OF LAC 58 COPERNICUS, REINHOLD & NURTHERN PART OF LAC 74 RIPHAEUS MT, FRAU MAURO
- L 2 I 168 U+U2N 19-<sup>3</sup>9W 91 ••• •••• 07U4UZ II-24-66 LUNAR ORB HI. 610MM B66 NONE 52K 85246 106 2+0 29 -+ 5 CAM-HAD+= +-4N 19-456 Shing= 274+ PHASE= 63+ EMIS+ANG== 2+ CAM-RAD+= 1791+2 KM+ SUN AZH= 90+5 SOUTHERN PART OF LAC 56 COPERNICUS,REINHOLD & NORTHERN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO

NORTHERN PART O. LAC 76 RIPHAEUS HI FRAU MAURO

-	•	· ·	### # · <b>2</b> · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •					_	
510N	MAG FR.PHUTO P RULL OR LAT M MAIN M	. #	TIMES-HR M SE	c	SENSOR	ANE	FILTFR TUCS M#M	SCALE AT T PRIN. AZ N.MI PT.	ANG. ANG. FR.	FWD.
ί 2	2 168 U•U3N Cam•Nad•= •U4N Southern Pa	19.448	Swing= 271.	PHASE	= 63. EHIS•AN	#80HH R&W CAF G+# 2+ CAF NORTHERN PART OF	1.RAD. = 1791	I+2 KH+ 50	N AZH= 90.5	-,87
ر 2	1 169 G-U15 CAM-HAD-= -DIN NDRIHERH PA	19.31%	Swing = 274.	PHASE	B 63. EMIS.AN		4-RAD-= 1791	I . Z KH . SU	N AZH# 90+5	
ι 2	2 169 U-UHS CAM-HAD-=IN NUNTHERN PAR	19.30W	541NG= 271.	PHASE	■ 63. EH15.AN	#BOMM BEW G.= 2. CAP SOUTHERN PART OF	1+RA5+= 1791	. +2 KH+ SU	N AZM# 90+5	<b>≈</b> ∎87
L 2	I 170 0-045 CAM-NAD-= -025 NORTHERN PA	19.17#	Swing= 274.	PHASE	. 63. EMIS.AN		1-RAD-= 1791	1+2 KM+ 5U	N AZM. 90.4	
ί2	2 17B 0-03S CAM-NAD.= +02S HORTHERN PA	19.16#	Swing = 271.	PHASE	- 63. EMIS.AN		4.RAD.= 179	1.2 KM. 5U	N AZH# 90,4	
Ĺ Z	1 171 U+245 CAM+HAD+# +225	24.164		PHASE	62. EMIS.AN					
ι 2	2 471 J+235 CAH+NAD+= +225 NDRTHERN PA	24-169	541NG= 269.	PHASE	■ 62. EMIS.AN		M+RAD+# 179;	3+2 KH+ SU	E • 0.5 PMZA N	
L 2	1 172 0+275 LAM+NAD+± +255	19+96W 92 2U+02#	*** **** 10325 Swing= 272.	7 11-24-66 PHASE	LUNAR ORB HI.  # 62. EMIS.AN	610MH 86N	= NONE 54 H+RAD+= 179	4K 88575 IO 3+2 KM+ SU	4 2 1 30 N AZM= 90 3	-, 5

- L 2 2 172 6.275 19.95W 92 \*\*\* \*\*\* 103257 11-24-66 LUNAR ORB L",F=80MM 86W NONE 54K 675000 IGD 2.1 °G -.87
  LAM.HAD.\*\* .255 20.01# 541NG= 269. PHASE= 62. EM!S-1NG.= 2. CAM.RAD.= 1793.2 KM. SUN AZM= 90.3
  NOKIHEHN PAKI OF LAC 76 HIPHAEUS MT.FRAU MAURO 6 SOUTHERN PARI OF LAC 58 COPERNICUS.REINHOLD
- L 2 | 173 U+3U5 19+80W 92 \*\*\* \*\*\* 103259 | 1-24-66 LUNAR ORB HI. 610MM R6W NONE 55K 90164 103 2\*2 30 -, 5 CAM-NAD-# .285 19+87d SWING# 2/2. PHASE# 62. EHIS-ANG-# 2. CAM-PAD-# 1794-2 KM- SUN AZM# 90+3 HURTHERN PART OF LAC 76 RIPHAEUS MI,FRAU MAUHO
- L 2 2 173 U-305 19-80W 92 \*\*\* \*\*\* 103259 11-24-66 LUNAR ORB EC.F=80MM B6W NONE 55K 487500 101 2+3 30 ++87 Cam-Nad-\* -285 19-87W 5-16G= 269. PHASE= 62. EMIS-ANG.= 2. CAM-RAD-= 1794+2 KM- SUN AZM= 90+3 NONTHERN PART OF LAC 76 RIPHAEUS HT.FRAU MAURO 6 SOUTHERN PART OF LAC 58 COPERNICUS.REINHOLD

L 3 2 120 0.735 19.50W 74 0.0 0.00 181835 2-19-67 LUNAR ORB LO.F. BOMM BEW

NOKTHERN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO

- NONE 45K 562500 258 46+2 13 -.\*\*

6 SOUTHERN PART OF LAC SA COPERNICUS. REINHOLD

SION	ROLL OR LAT.	RB GET GMT H-DA-YR " TIMES-HR H SEC (imes]ihated)	CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	TUDE PRIN. A	TILT SUN SIDE. AZ ANG. ANG. FWD. FR. LAP VERT 8. 8
ί2	CAM-NAD-= -315 19.72%	92 ••• •••• 103362 11-24-66 Swing= 269•     Phase: 76 Riphaeus Mifrau Mauro	= 62. EM15.ANG.= 3	CAM.RAD.	1794.2 KH. S	SUN AsHa Sn.a
լ 2	CAM+NAD+= +345 19+58W	92 ••• •••• 103304 11-24-66 Swing= 271•	= 62. EHIS.ANG.= 3	B&W - NONE 3. CAM.RAD.#	55K 9U[64     1794•2 KH• 5	103 2+5 31 -+ 5 Sun Azm= 90+3
į Ž	CAM.HAD. = .345 19.57H	92 ••• •••• 103304 11-24-66 Swing= 269•	≈ 62. EMI5.ANG.# :	3- сди-ядо-я	1794+2 KH+ 5	SUN AZM= 90+3
L 2	CAM+HAD+# +375 19.43#	92 *** *** 103307 11-24-66 Shing= 271* Phase: Part Of Lac 76 Riphaeus Mi	# 62. EMIS.ANG.# 3	BLW - WAR 3. CAM.RAD.=	56K 91803 1 1795•2 KH• 5	103 2+7 31 ++ 5 5un azm= 90+2
ι 2	CAM-#AD.= .385 19.42#	92 ••• ••• 1033u7 11-24-66 5wing= 269•       Phase: 76 kiphaeus Ht,frau Mauro	≈ 62. EHIS.ANG.± J	S. CAMERAD.E	1795 • 2 KM • 9	SUN AZM# 90+2
L 2	LAM.NAD. # .415 19.28W	92 ••• •••• 1033U9 11-24-66 Swing= 271。 Phase• Part Of Lac 76 RiPhaeus Mi,	* 62. EMIS.ANG.# 3	B&R - NONE CAM-RAD.=	56K 91803 i 1795.2 KM. S	03 2+8 31 -, 5 SUN AZM= 90.2
L 2	CAM+NAD+= +415 19+27#	92 *** *** 103309 11-24-66 Swing= 269. Phase: 76 Riphaeus Mi,frau Mauro	□ 62. EHIS+ANG.□ 3	l. CAM+RAD+#	1795+2 KH+ S	SUN AZH= 90.2
	CAM+NAD+# +445 19+13W	92 ••• ••• 103312 11-24-66 5wing= 271.	= 62. EHIS.ANG.# 3			
ί2	2 178 0.465 19.03W 5 CAM.NAD.= .445 19.12W NONTHERN PART OF LAC	92 ••• ••• 103312 11-24-66 Swing= 269• PHASE: 76 Riphaeus MT,frau nauro	LUNAR ORB LO.F=BOHM = 62. EMIS.ANG.= 3 & SOUTHE	B&W - NONE 3+ CAM•RAD•= ERN PART OF LAC 5 <sub>8</sub> (	56K 700000 1 1795•2 km• 5 COPERNICUS,REINHO	101 3+0 31 -,87 SUN AZM# 90+2 OLD
į <b>3</b>	CAM-MAD-= -U3N 15-93W	74 ••• •••• 181835 2-19-67 5wing= 27. Phase: Pant of Lac 76 hiphaeus nt	R 15. EHIS.ANG.= 70	CAH+RAD+m	1784 • Z KH • S	257 66+2 13 Sun azmæ 91+3

L 3 I 124 V+625 ZU+10H 77 \*\*\* \*\*\* 044432 Z=20=67 LUNAR ORB H1. 610MM B6W - NONE 46K 75410 225 \*2 17 -.\*\*

CAH+NAD+= +625 ZO+69W Sming= 24\* PhaSt= 73\* EMIS+ANG+= 0\* CAM+RAD+= 1785+2 KH\* SUN AZM+ 91+3

NORTHERN PART OF LAC 76 RIPHAEUS MI,FRAU MAURO

LAM-NAD- -- -- SHING# 27. PHASE# 15. EMIS-ANG.# 70. CAM-RAD-# 1784-2 KM. SUN AZM# 91-3

## REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

PAGE 237

51 UN	MAG FR,PHOTO PF HOLL UR LATA # MAIN #	. 1	I1MES-HR	H SEC		S	A-LENS OR Ensor Type		KPOSURE AND FILTER	TUDE M=N.H	PRIN.	ΑZ		F#D.
<u> </u>	2 124 0+625 CAM+NAD+# +625 NORTHERN PAR	26.09# 7 26.09# 3 OF LAC	77 *** **** Swing= 76 Riphaeus	044432 47. Mt.FRAU	2=20=67 L PHASE= Mauru	UHAR D	RG LO:F=80MM EMIS+ANG+= & SOUTH	BGW G. Ern Par <sub>1</sub>	- NAN Camarada Toflac sa	E 46K 1785+2 Coperni	\$75000 KM+ CUS+RE1H	248 SUN HOLD	+3 17 AZH# 91+3	-,•0
ί3	1 125 0.675 CAM.HAD.= .665	19.98W		354.	PHASE	73.	EMIS . ANG . #							
ι 3	2 125 0.675 CAH.NAD.= .675 NONTHERN PAR	19.978	SylNG≠	20.	PHASE=	72.	RB LOSF=80MM Emis.ang.* & South	0.	CAM . RAD . =	1785 • 2	KH+	Sบพ	+2 17 AZM= 91+3	-,87
į š	1 126 U+725 CAM-NAU-= .715	19.86W 7 19.86W WHIMERN P	77 es esec Swinge. Part of Lac	044436 327• 76 K1PH	2-20-67 L Phase= Aeus Ht.f	UNAR 0 73. Rau ha	R8 HI. &IOHM Emis=ang.= Uro	86W 0.	+ NDN CAM+RAD++	E 46K 1785•2	75410 KH+	168 SUN	+3 18 AZM# 91+3	h
1. 3	2 126 U+725 CAH-NAD.= .715	19.85m	SWING= .	340•	PHASE=	72.	EMIS ANG . =	86# 0•	™ NON CAM+RAD+±	E 46K 1785+2	5750n0 KM+	1 A D 5 U N	+2 18 A7H# 91+3	87
ιJ	1 127 0-765 CAH-NAD-* -755	19.754		310.	PHASE =	73.	EHIS ANG							
ι 3	2 127 U+765 CAM+HAD+= +765	14+74%	SWING	313.	PHASE=	72.	EHIS . ANG	86# 0•	- NON	E 46K 1785•2	575AAA K#+	153 5UN	+3 18 AZH= 71+3	-, A 7
	1 128 U-815 CAM-NAD-# -BGS	19-63#		300.	PHASE=	73.	ENIS.ANG.=						•5 1R AZM# 91•3	
زغ	2 128 0.815 CANADAE .805	19.624	77 *** **** SWING* PART OF LAC	299.	PHASE =	72.	EHIS - ANG - =	0. 86#	- NGN CAH+RAD+#	E 46K 1785•2	575000 KM+	140 5UN	.4 18 AZM= 91.3	07
ι 3	1 129 U.865	19.51W		294.	PHASE	73.	EMIS.ANG.E							
į 3	2 129 U.865 CAM.NAD.= .855	19.518	SHINGE PART OF LAC	292.	PHASE=	72.	EHIS.ANG.=	B&#   1</td><td>- NON CAM+RAD-=</td><td>E 46K 1785•2</td><td>575na0 KM•</td><td>132 SUN</td><td>.5 18 AZM# 91.2</td><td>-,87</td></tr><tr><td>ι 3</td><td>1 130 0+965 CAM+NAD+# +895</td><td>19.408</td><td>SWINGE PART OF LAC</td><td>290.</td><td>PHASE .</td><td>73.</td><td>EHIS.ANG.=</td><td>1.</td><td>- MAN</td><td>E 46K 1785+2</td><td>75410 KM+</td><td>130 SUN</td><td>.7 18 AZM= 91.2</td><td>-, 6</td></tr></tbody></table>						

SIDM	MAG FR.PHUID PR ROLL OR LAT. B MAIN		TIMES-HR M SEC		CAMERA-LENS OR Sensor Type	F1LH-E	XPOSURE AND FILTER	HeN.H1	ALE AT Prin. Pt.	-	FR.	,	LAP
ι 3	(AM-NAD-# 4895	14.399	*** **** 044444 Swing= 287* T OF LAC 76 RI	PHASE #	UNAR ORB LO F=80MM   72. EHIS+ANG.= 1 Frau Mauro	B&₩ •	CAM-RAD+=	46 <sub>K</sub> 1785•2	575nna KH•	128 SUN	+6 4 ZH=	18 91+2	87
ι 3	CAM-GAD. = -945	19.288	*** **** 044446 5m14G# 287* t Of Lac 76 R1	PHASE=	LUNAR ORB HI. 610MH 73. EHIS.ANG.= 1 Frau Mauro		™ NONE Cambrad.=	46K 1785•2	75410 KM+	127 SUN	B. HZH=	18 91+2	-, 6
ز ن	CAMENADE # 945	19.27W	*** **** 044446 Swing= 284* T Of Lac 76 Ri	PHA⊃E ■	LUNAR ORB LO.F=80HM 72. Emis+ang.= 1 Frau Mauro	•	- NONE	46K 1785+2	575nna KM•	125 SUN	+7 AZH≃	18 91.2	87
ί 3	1 132 3-235 CAM+NAD+= 2-305	17.598	*** **** 081415 SWING: 1: OF LAC 76 RI	PHASE=	LUNAR ORB HI. &IGNM 61. Emis.ang.= 34 Frau Mauro	86₩	- NONE	46K 1785•2	75418 KH•	201	33+1 AZH#	21 90•3	-,••
į 3	2 132 3+235 CAM+NAU+= 2+315	17.58W	*** *** 081419 Swing= 1. OF LAC 76 RI	PHASE=	LUNAR ORB LO.F=80MM 60. Emi5.Ang.= 34 Frau Mauro	B6#	- NONE	46K 1785•2	575900 KH•	Zn2 SUN	33+0 AZH=	21 90.3	-,**
į, j	I 133 3+465 CAM+NAD+# 2+525	17.03W	5wing= 360. OF LAC 76 R	PHASE=	LUNAR ORB HI. 610MM 61. Emis.ang.# 34 Frau Mauro	R&#  •</td><td>- None Camerades</td><td>47k 1786•2</td><td>77849 KH•</td><td>200 SUN</td><td>33+1 AZH#</td><td>22 90+2</td><td>-,••</td></tr><tr><td>£ 3</td><td>2 133 3+465 CAH+NAD+# 2+525</td><td>1/.n2w</td><td>*** **** 08142' SWING# 360* OF LAC 76 R</td><td>PHASE=</td><td>LUNAR ORB LO.F=80HN 60= EH15+ANG.= 34 FRAU HAURD</td><td>BUW</td><td>- NONE CAM+RAD+#</td><td>47K 1786•2</td><td>5875n0 KM•</td><td>201 SUN</td><td>33+0 AZHW</td><td>90+2</td><td>-,51</td></tr><tr><td>ن خ</td><td>1 134 3+695 CAM+NAD+= 2+745</td><td>1 4 41 4 34</td><td>5 th 1 11 1 m 2 5 ft a</td><td>PHASES</td><td>LUNAR ORB HI. 610HM 61. EHIS-ANG.# 34 FRAU MAURO</td><td></td><td>FWLLWA</td><td>1100.5</td><td>77849 KH•</td><td>20N</td><td>33+1 A7H#</td><td>22 90•1</td><td>-,••</td></tr><tr><td>ن غ</td><td>2 134 3.645 CAM-NAD-# 2.745</td><td>14.4464</td><td>Swike 359.</td><td>PHASE</td><td>LUNAR ORS LO.F.=80MM 60. EMIS.ANG.= 34 Frau Mauro</td><td>1.</td><td>CAMORADom</td><td>1/80+4</td><td>597500 KH•</td><td>200 SUN</td><td>33+0 A7H#</td><td>90•1</td><td>50</td></tr><tr><td>լ 3</td><td>1 135 3.935 Can-Had-# 2.965</td><td>1 L . O O</td><td>Swing 157.</td><td>PHASE</td><td>LUNAR ORB HI: 610MM: 61. EMIS:ANG:# 34 Frau Mauko</td><td>7.</td><td>CAMPHAUST</td><td>1/0/07</td><td>78689 KM•</td><td>1 9 B</td><td>33+1 A7H=</td><td>89.9</td><td>-,••</td></tr><tr><td>լ 3</td><td>2 135 3+935 Camehadem 2+965</td><td>1 h = 4 7 W</td><td>5w1NG= 357•</td><td>PHASE:</td><td>LUNAR ORB LD.F#80MM * 60. EMIS.ANG.# J' FRAU MAURO</td><td>4.</td><td>CALL HUNGA</td><td>170/ 2</td><td>600000 KM*</td><td>199 SUN</td><td>33. AZH=</td><td>89.9</td><td>-,50</td></tr><tr><td>ι 3</td><td>1 136 3.165 CAM.NAD.* 2.185</td><td>1 13 . D.C. 14</td><td>Swillia 14.</td><td>PHASE</td><td>LUNAR ORB H1. 61DMH = 17. EHIS.ANG.= 6 FRAU MAURO</td><td>/ <b>*</b></td><td>(ADSKADS=</td><td>1106.1</td><td>77n49 KM•</td><td>252 SUN</td><td>43.</td><td>9 [8 90•5</td><td> , <b>* •</b></td></tr></tbody></table>							

SIUN A	AAG FR.PHUTU PRII ROLL OR LAT. # HAIN	LUNG.	(I=ESTIH	TED			TYPE		AND FILTER	KaKH* HaN*WI	PRIN. PI.	<b>≜</b> Z	vert	END. LAP S. S.
(3 i		3.0AW 79 4 14.85W 4. W. PART	SWING=	114242 14+ 76 RII	2-20-67 PHASE= PHAEUS MT,	LUNAR 17• Frau F	ORB LO.F#80M EMI5+ANG.# 1AURO	н 96# 67• 6	FIMB OR HUBIT	ON				
<b>L</b> 3	1 137 2.925 2		5 a t 14 fe an	151051	2-20-67 PH//SE=	LUNAR	ORB HI. 610M		- NONE	49K 1788•2	KH•	SUN	YSH# Ame.	•
<b>. 3</b>	2 137 2.925 2			151051	2-20-67 PHASE	LUNAR	ORB LO.F=80F	14 86W		1788+2	KH•	SUN	¥\$₩# Aue,	,
ι 3	1 138 2.985 2		884 4844 Swille	151053	2-20-67 PHASE:	LUNAR 62.	ORB HI. 6105 EMIS-ANG.=	1M B&# 39•</td><td></td><td>1788•2</td><td>KH+</td><td>SUN</td><td>¥ZM= AO•</td><td>•</td></tr><tr><td>L 3</td><td>2 138 2.985 2</td><td></td><td>5+1116=</td><td>151053</td><td>2-20-67 PHASE:</td><td>LUNAR 62.</td><td>ORE LOFFEED</td><td>1M B&W 39.</td><td>- NONE</td><td>1788•2</td><td>KH*</td><td>SUN</td><td>AZMm YOF</td><td>•</td></tr><tr><td>ι 3</td><td>1 139 3-455 4</td><td></td><td>*** **** Sainge</td><td>151056</td><td>2-20-67 PHASE</td><td>LUNAR 82.</td><td>URB HI. 610 EHIS.ANG.=</td><td>94 B&#</td><td>- NONE Cambrades</td><td>1788+2</td><td>KH.</td><td>SUN</td><td>#5W# 40*</td><td>5</td></tr><tr><td>ι 3</td><td>2 139 3-045 CAM-NAD-# 1-865</td><td></td><td>98* 98** SaluGe</td><td>151056</td><td>5 2-20-67 Phase</td><td>LUNAR 62</td><td>ORB LO.F.BO. EMIS.ANG.=</td><td>мм В&₩ 39•</td><td></td><td>1788•2</td><td>KM.</td><td>SUN</td><td>AZH= 7U·</td><td>•</td></tr><tr><td><u>į</u> 3</td><td>i 140 3+115 CAM+HAD+= 1+925</td><td></td><td>644 644 Suinge</td><td>151059</td><td>9 2-20-67 PHASE</td><td>LUNAR = 62.</td><td>0RB HI . 610</td><td>MH B&W 39.</td><td></td><td>1788+2</td><td>KH*</td><td>50N</td><td>4 A 2 H = 701</td><td></td></tr><tr><td><b>. 3</b></td><td>2 140 3-115 CAM-HAD-= 1-925</td><td></td><td>440 4400 Saluga</td><td>15105</td><td>9 2-20-67 Phase</td><td>LUNAF</td><td>R ORB LO.F.BO.E.BO.E.BO.E.BO.E.BO.E.BO.E.BO.E.B</td><td>IMM 86₩ : 39•</td><td>= NONE CAM+RAD+#</td><td>1788+2</td><td>KH-</td><td>588</td><td>I AZM# YO</td><td>14</td></tr><tr><td></td><td>1 141 3-175 CAM+NAU+= 1-985</td><td>22.82# 80 22.37W</td><td>*** **** = 1 N I N I N I N I N I N I N I N I N I N</td><td>15110 359+</td><td>2-20-67 PHASE [PHAEUS MI</td><td>LUNA 1 62</td><td>R ORB HI. 618 . EHIS-ANG-" MAURO</td><td></td><td></td><td>1788•2</td><td>! кн•</td><td>5U+</td><td>4 YSHm An</td><td>• 4</td></tr><tr><td></td><td>2 141 3+175 CAH+NAD+= 1+985</td><td>22+81<sup>W</sup> 80 22+37W</td><td>SWING.</td><td>1511u : 359.</td><td>1 2-20-65 PHASE IPHAEUS M</td><td>, LUNA m 62 Tofkau</td><td>R URB LO.F=86 , EHIS.ANG.: MAURO</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>ι 3</td><td>1 142 3+235 CAM=NAD== 2+045</td><td>22.66# 80</td><td>, Saine</td><td>. 15110 . 359.</td><td></td><td>7 LUNA ⊦≈ 62</td><td>R ORB HI. 610</td><td>044 MHQ = 39•</td><td>= NON CAM+RAD+#</td><td>E 49K 1788•3</td><td>8032 2 KM+</td><td>8 201 SUI</td><td>N 37+9 2 N gZM≈ 98</td><td>0 <b>-,</b>10 .4</td></tr></tbody></table>						

6.100	MAG FR.PHUID PI RULL UR LATO # MAIN #	. #	TIMES-HR M SEC		SENSOR	LH-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN- HeNaHI PT. KaKHe	ΑZ	ANG. ANG.	LAP
ι 3	2 142 3+235 LAM+NAD+= 2+645	22 + 21 W	*** **** 151104 Swing= 359* OF LAC 76 KI	PHASE# 62.	EHI5+ANG+# 39+	CAM+RAD «#	49k 612500 1788•2 kM•	200 500	37.9 20 AZM# 90.4	<b>-</b> .8₽
ι 3	1 143 3+295 CAM+NAD+= 2+u9S	22+076	*** **** 151107 Swing= 359* OF LAC 76 RIG	PHASE# 62+	EMIS.ANG. 39.		49K 80328 1788+2 KM+	179 5un	37+9 20 AZM= 90+3	10
լ 3	2 143 3-295 CAM-NAD-# 2-105	22.064	*** **** 1511U7 Swing# 359* UF LAC 76 HI	PHA5E= 62.	EM15.ANG.= 39.		49K 612500 1788+2 KH+	200 SUN	37+9 20 AZH# 90+3	88
į J	1 144 3.355 CAM-HAD-# 2.155	21.928	*** **** 151109 SWING= 358* OF LAC 76 RI	PHASE= 42.	EMIS.ANG.= 39.		49K 80328 1788+2 KM+			
<u>.</u> 3	2 144 3+355 CAM+NAD+# 2+165	21.914	••• ••• 1 <sup>5</sup> 1109 5wing= 359• OF LAC 76 RI	PHASE= 62.	EMIS ANG .= 39.	CAH+RAD+=	49K 6125n0	50N	AZM# 90+3	
L 3	1 145 2+7u5 CAM+HAD+= 2+465	23.015%	*** *** 183952 Swing* 355* OF LAC 76 KI	PHASE= 67.	EHIS+ANG.# 9.		50K 81967 1789•2 KH•	196 SUN	0.6 Z1 A7M= 90.5	-,**
ال نا	2 145 2+705 CAM+MAD+# 2+465	23+35W	*** *** 183952 Swing= 356* DF LAC 76 HI	PHASE# 66.	EMIS.ANG. 9.	CAM+RAD+#	50K 625000 1789+2 KH+	SUN	AZM= 90+5	
L 3	1 146 2.755 CAH.HAD.= 2.515	22.934	SWING= 354. OF LAC 76 RI	PHASE= 67.	EMI5.ANG 9.		50K 81967 1789•2 KM•	195 SUN	8+6 21 AZH# 90+5	-, >
ι 3	Z 146 2+755 CAH+NAD+# 2+515	22+92%	SWING= 355+ E OF LAC 76 R1	PHASE# 66	EMIS.ANG.# 9.	CAM+RAD++	50K 6250N0 1789+2 KM+	SUN	AZH# 90+5	
ι 3	1 147 2+865 CAN+HAD+# 2+56S	22.81W	••• ••• 183956 Swing= 354• FOF LAC 76 RI	PHASE≖ 67-	. ЕНІ5•ANG•= 9•		50K 8196 1789•2 KM•	7 194 SUN	8+7 22 AZM= 90+4	+.in
ι 3	2 147 2+8∪5 CAM+HAD+= 2+56S	22.80W	••• •••• 183956 Swing= 354• FOF LAC 76 RI	PHASE - 66	. EMIS.ANG.= 9.	&+	50K 62509( 1789•2 KH•	5 194 SUN	8+6 22 : A7M= 90+4	<b>-</b> , 89
į 3	1 148 2.855 Cam.Had.= 2.605	22+68#	*** *** 183958 Swing= 353* Tof Lac 76 Ri	PHASE≖ 67	• EHIS•ANG•= 9•	EN = NONE CAM+RAD+=	50K 819A 1789+2 KH+	7 193 SUN	8+7 22 1 AZH# 90+4	10

SUN AZHE 90+3

1790.2 KM•

# 810N	MAG FREPHI HULL UN MAIN H	UTU PK Lat•	IN.PT. OF E	RB GET FIMES-HK (**ESTIMA	GHT M SEC (TED)	M-DA-YR	CAME	RA-LENS OR Sensor Type	FILH-EX	POSURE AND FIL	1ER	LODE	PT.	A '	FR.	SIDE + F#D + LAP 8 , 9
<sub>(</sub> 3	2 148 CAM+NAD+=	2+855 2+6u5	27.684	SWING= 3	353•	PHASE=	66.	ORB LO.F.BUMM Emis.ang.= S auro	B&# 7.</td><td>- CAM•RAD</td><td>NONE</td><td>50<sub>K</sub> 1789•2</td><td>6250n0 KH:</td><td>194 SUN</td><td>В∘6 22 А2М= <sup>9</sup>0•4</td><td>-,88</td></tr><tr><td>ί3</td><td>1 149 CAM-NAD-=</td><td>2+9u5 2+655</td><td>22-564</td><td>SWINGE :</td><td>352+</td><td>PHASE =</td><td>67•</td><td>ORB HI: 610MM EM15*ANG:# ' AURO</td><td>86M 9.</td><td>CAM+RAD</td><td>NONE</td><td>50K 1789•2</td><td>81967 KM•</td><td>1 9 2 Sun</td><td>8+7 22 AZH= 90+4</td><td><b>-,</b> 9</td></tr><tr><td>L 3</td><td>2   149 Camenade=</td><td>2+965 2+655</td><td>22+55#</td><td>SWINGS LAC</td><td>352.</td><td>PHASE =</td><td>66.</td><td>ORB LO:F#80MM EM[5:ANG:= ' AURU</td><td>86W 9•</td><td>- CAH•RAD</td><td>NONE</td><td>50k 1789+2</td><td>625000 KH+</td><td>193 SUN</td><td>8+6 22 AZH= 90+4</td><td>-,88</td></tr><tr><td>L 3</td><td>I ISU CAMENADem</td><td>2+95S 2+76S</td><td>22-440</td><td>Swings:</td><td>351.</td><td>PHASE =</td><td>67.</td><td>ORB HI: AIDHM EHIS:ANG:= 'AURO</td><td>86W 9•</td><td>- CAM+RAD</td><td>NONE +=</td><td>50K 1789+2</td><td>81947 KH+</td><td>191 SUN</td><td>8+7 22 AZHa 90+4</td><td>10</td></tr><tr><td>L 3</td><td>2 153 CAH+HAD+#</td><td>2+955 2+7uS</td><td>22.43W</td><td>B} *** **** Swing= . Ari of Lac</td><td>351.</td><td>PHASE=</td><td>66.</td><td>ORB LO.F.BOMM EMIS.ANG.=</td><td>B&W 9.</td><td>-CAM+RAD</td><td>NANE )•=</td><td>50K 1789•2</td><td>625000 KH+</td><td>192 SUN</td><td>8+6 22 AZH= 90+4</td><td><b>-,</b>8A</td></tr><tr><td>L 3</td><td>1 151 CAM-NAD-=</td><td>2+995 2+745</td><td>22+31W</td><td>BI *** **** Swing= : ART OF LAC</td><td>350.</td><td>PHASE =</td><td>67.</td><td>ORB HI. 610MH EMIS.ANG.= '</td><td>8<i>6#</i> 9.</td><td>- CAM•RAD</td><td>Nane ••</td><td>50k 1789•2</td><td>81947 KM•</td><td>190 SUN</td><td>8.7 22 AZH= 90.3</td><td>10</td></tr><tr><td>ι</td><td>2 151 CAM=NAD=</td><td>2•995 2•755</td><td>22.31W</td><td>BI 00 .000 Suingm Art of Lac</td><td>351.</td><td>PHASE=</td><td>66.</td><td>ORB LO.F.BOMM EMIS.ANG.E JAURO</td><td>86# 9•</td><td>- CAM+RAD</td><td>NnNE )•≖</td><td>50K 1789+2</td><td>625NNO KH+</td><td>191 SUN</td><td>8+7 22 AZM= 90+3</td><td><b>-,</b>88</td></tr><tr><td>įβ</td><td>1 152 CAM+NAU+=</td><td>3.045 2.795</td><td>22.19W</td><td>BI *** **** Swing= ART UF LAC</td><td>349.</td><td>PHASE:</td><td>67.</td><td>ORB HI. 610MM EMIS.ANG.= HAURO</td><td>8&# 9.</td><td>- CAH•PAE</td><td>NONE</td><td>50K 1789•2</td><td>81967 KM+</td><td>190 SUN</td><td>8+8 22 AZM= 90+3</td><td>10</td></tr><tr><td>ι 3</td><td>2 152 Cam-Hau-M</td><td>3+64S 2+795</td><td>22.18#</td><td>81 Swings art of Lac</td><td>350.</td><td>PHASE</td><td>66.</td><td>ORB LO.F=80MM EMIS•ANG•* MAURO</td><td>9 <b>.</b></td><td>_ CAM+RAC</td><td>Nn N E</td><td>50K 1789+2</td><td>625090 KH•</td><td>190 50N</td><td>8.7 22 AZM# 90.3</td><td>-,48</td></tr><tr><td>L 3</td><td>1 153 Can-Had-#</td><td>2+975 1+615</td><td>23+55W</td><td>82 *** *** SWING= ART OF LAC</td><td>201.</td><td>PHASE:</td><td>. 69.</td><td>ORR HI. 610HM EMIS-ANG.= 1AURO</td><td>86% 2.</td><td>- CAM+RAI</td><td>Nane D•#</td><td>51K 1790•2</td><td>836∏7 КМ#</td><td>41 SUN</td><td>2+1 23 AZM# 90+3</td><td>-,••</td></tr><tr><td>ز غ</td><td>2 153 Cam+Nad+=</td><td>2+975 3+525</td><td>23.556</td><td>82 *** *** 54146= AKI OF LAC</td><td>198.</td><td>PHASE</td><td>- 69.</td><td>ORB LO.F=BOMM EMIS+ANG+= 1AURO</td><td>8<sup>6</sup> W</td><td>- CAM+RA(</td><td>NaNE D∗≠</td><td>51K 1790•2</td><td>6375nG KM+</td><td>3A SUN</td><td>2+1 23 AZM# 70+3</td><td>**</td></tr><tr><td><b>į 3</b></td><td>1 154</td><td>3+025</td><td>23.38W</td><td>BZ *** ****</td><td>Z 2U 8 4 8</td><td>2-20-67</td><td>LUNAR</td><td>ORB HI. 610HM</td><td>BUW</td><td>-</td><td>NONE</td><td>51K</td><td>83607</td><td>44</td><td>2.1 23</td><td>-, 9</td></tr></tbody></table>							

SWING= 204. PHASE= 69. EMIS.ANG.# Z.

N. W. PART OF LAC 76 RIPHAEUS HI.FRAU HAURO

									PAGE 242
Ħ	H MAIH H	LONG.	GET GHT TIMES-HR M SEC ( = ESTIMATED)  *** *** 220848 SWING= 202.		SENSOR Type	AND FILTS	R TUDE PRIN. H=N.H! PT. K=KH.	AP ANG FR Ve	ANG FAD. 4 LAF RT 8.5
		N. W. PAR	FOF LAC 76 HIP	HAEUS HI FRAU	• EMI5•ANG•≖ 2 Hauro	CAM+RAD+	NE 51K 63750( 1790+2 KM+	1 42 2 5UN <sub>A</sub> ZH	•1 23 -,87 • 90•3
		N. H. PART	*** **** 220850 Swing= 208; For Lac 76 Rip	HAEUS HT.FRAU	- EMIS+ANG.= 2 Mauro	CAH-RAD-	NE 51K 8360) 1790•2 km•	48 Z SUN AZH	•2 23 <b>-,</b> 9 = 90•3
		N. W. PART	5% *** 220850 Swing= 205* OF LAC 76 RIP	PHASE* 69. HAEUS HT.FRAU	EHIS+ANG.= 2 Mauro	· CAM+RAD+#	NE 51K 637500 1790•2 KM•	45 20 Sun Azmi	•2 23
		N. W. PART	*** **** 220853 Swing= 211. OF LAC 76 RIP	PHASE≈ 69. Haeus Mi∍frau	EHIS-ANG.m 2 Mauro	CAM+RAD+±	VE 51K 83607 1790+2 KM+	51 2. SUN AZH	
		N. H. PART	*** *** 220853 5wing= 208. OF LAC 76 RIP	PHASE= 69. Haeus Mi,frau	EMIS+ANG.= 2 MAURO	• CAH+RAD+=	IE 51K 637599 1798+2 KM+	48 2. Sun Azmi	:3 23 -,68 : 90+2
		N. W. PART	*** **** 220855 Swing= 213* of Lac 76 Ripi	HASE# 69. HAEUS MI,FRAU	EMIS+ANG+= 2. Mauro	- CAM+RAD+=	IE 52K 85246 1791+2 KM+	54 2. SUN AZM	3 23 -, 9 1 90+2
		N. W. PART	*** *** 220855 Swing= 211. OF LAC 76 RIPH	PHADE = 69.	EHIS+ANG∈= 2. Mauro	CAM*RAD*#	IE 52K 450NNU 1791+2 KM+	51 2+ 5UN AZH=	3 23 - 488 90+2
		N. W. PART	*** **** 220857 	.PHASE# 69 1 DAFRAU 1	EMIG•ANG•= 3. Mauro	CAN+RAD+m	E 52K 95246 1791+2 KM+	56 2+1 SUN AZH#	
		N. W. PART	OF ERC 18 HIPH	PHASE= 69. AEUS HT <sub>i</sub> frau 1	EHIS•ANG.= 3. Mauro	CAM + RAD = =	E 52K 650000 1791+2 KH•	54 2.4 SIIN AZME	
		N. W. PART	5WING= 2196 Of LAC 76 RIPH	PHASE# 49. AEUS MT.FRAU P	EMIS.ANG.# 3. Mauro	CAM-RAD.	E 52K 85246 1791+2 KM•	59 Z+! Sun Azh#	5 23 -•10 90•2
		No No PART	900 0000 220859 Swinge 2160 Of Lac 76 Riph	PHASE= 69. AEUS MI.FRAU M	EMIS+ANG== 3. AURO	CAM+RAD==	E \$2K 65nnno 1791•2 kM•	57 2.5 SUN AZM#	5 2388 90+2
ί 3	واقدف ± 60 CAM+HAD+ ورود = • CAM+HAD+	3 44.0711	** **** 220901 Saing= 221. Of Lac 76 Riph	PHASE - 40	* 44 * * * * * * * * * * * * * * * * *		5 52K 85246 1791•2 KM•	61 2+6 SUN AZM#	5 24 -•10 90•1

\*

And the second of the second o

- L 3 2 163 3-315 22-60# 82 \*\*\* \*\*\* 220901 2-20-67 LUNAR ORB LO.F#BOMM BG# NONE 52K 650000 59 2-6 24 -- RA

  CAM-NAU-= 3-355 22-66% Shing= 219. Phase= 69. Emis-ang.\*\* 3. Cam-rad-= 1791-2 km. Sun azm= 90.1

  No no Part of Lac 76 riphaeus ht.Frau hauro
- L 4 1 113 14-645 9-518 21 000 051900 5-19-67 LUNAR ORB HI- 610MM 868 NONE 2718K 4455738 173 -2 20 -,47

  CAM-NAD-= 14-455 9-818 SWING= 310- PHASE= 70- EMIS-ANG-= 1- CAM-RAD-= 4457-2 KM- SUN AZM= 83-9

  LAC // PIULMALUS- LAC 76 RIPHALUS M; LAC 95 PURBACH-AR; LAC 94 PITATUS-M-NUBIUM & LAC 58 COPERNICUS-RE
- L 4 I II4 IJ.46N IU.97% ZI 400 #400 D54938 S"I9-67 LUNAR ORB HI: 610HM B6# NONE 2687K 4404918 Z61 108 19 -, 4

  LAM-NAD-= IJ.89N 809A SWING= 770 PHASE= 660 EHISOANG= 50 CAMORAD= 442602 KM0 SUN AZM= 9402

  LAC 58 CUPERNICUS, REINHOLD I LAC 59 MOVAPORUM, HYGINUS I LAC 41 APERNINESONAEHUS & LAC 40 TIMOCHARISOL
- L 4 2 115 42+28N 2+67N 21 ++\* ++\*\* D62212 5-19+67 LUNAR ORB LO+F#80MM 86N NONE 2905K 36312500 IDL 1+4 21 -,21

  CAM+NAD+= 42+76N 5+70W SWING= 266+ PHASE= 73+ EMIS+ANG+= 4+ CAM+RAD+= 4644-2 KM+ SUN AZM=109+5

  LAC 25 CASSINI,AL : W>1/2 HOUN SPHERE; LAC 76 RIPHAEUS M; LAC 1 N+POLE NEARSIDE BYRD+PFARY >80 N & LAC 16
- L 4 2 126 14-285 15-648 22 \*\*\* \*\*\* \*\*\* 172107 5\*\*19\*67 LUNAR ORB LO.F#80MM 86W \*\* NONE 2717K 33962500 77 \*5 20 \*\*12

  CAH-HAD-# 14-465 16-43W SWING# 263+ PHASE# 71+ EMIS-ANG-# 1+ CAM-RAD-# 4456-2 KM+ 5UN AZH# 84-0

  LAC 76 KIPHAEUS N | W>1/2 MOON SPHERE | LAC 126 CLAVIUS+M | LAC 25 CASSINI-ALPS HTS & LAC 42 M-SERENITY-DA
- L 4 1 121 13-din 16-80% 22 \*\*\* \*\*\* \*\*\* 175143 5-19-67 LUNAR ORB H1+ 610MM B6W NONE 2682K 4398771 268 1-3 20 --10

  CAN-MAD-= 13-87N 14-69% SULUGE 83+ PHASE= 67+ EMIS-ANG-= 3+ CAM-MAD-= 4421-2 KM+ SUN A7M= 94-4

  EASTERN PART OF LAC 58 COPERNICUS-REINHOLD ; EASTERN PART OF LAC 40 TIMOCHARIS 6 NORTHERN PART OF LAC 76 RIPHAEUS HT.
- L 4 1 125 14-895 22-97W 23 \*\*\* \*\*\* 052313 5\*20\*67 LUNAR ORB HI: 610HH B6W NONE 2717K 445409B 170 \*3 19 -.44

  CAM-NAD-# 14-40S 23-66K SWING# 356\* PHASE# 71: EHIS-ANG-# 1: CAM-RAD-# 4456-2 KH: SUN AZH# 84:2

  MESIEMN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO : CENTRAL PART OF LAC 94 PITATUS-M: 6 5. W. PART OF LAC 58 COPERNICUS-R
- L 4 2 125 14.895 22.97% 23 \*\*\* \*\*\* 052314 5-20-67 LUNAR ORB LO.FWOOMH B6W -- NONE 2717K 33962500 17O \*3 19 \*\*.90

  CAM.NAD.# 14.4US 23.06W SWING# 356\* PHASE# 71. EMIS.ANG.# 1. CAM.RAD.# 4456.2 KM\* SUN AZMR 84.2

  LAC 76 RIPHAEUS M | W>1/2 MOON SPHERE; LAC 128 BIELA.WAT; LAC 23 RUMKER, SHARP 6 LAC 76 EUDOXUS.BURG
- L 4 1 126 12-86N 23-35W 23 \*\*\* \*\*\* 055348 5=20-67 LUNAR ORB HI: 610MM 86W NONE 2477K 4388575 238 1:3 20 -.36

  CAM:HAD:= 13:93N 21:27W SWING= 53: PHASE= 68: EMIS:ANG.= 3: CAM:RAD:= 4416:2 KM: SUN AZM: 94:0

  BESIEMN PARI OF LAC 58 COPERHICUS:REINHOLD : CENTRAL PART OF LAC 40 TIMOCHARIS 6 N. W. PART OF LAC 76 RIPHAEUS HT.

	16						١.	, T	IPHAEUS	MI.FRAU	MAURO											PAGE	244
1 M 1 C 11	5 UN	MAG Kull H	FR # 1 . ( MA I	)R   N	PR LAT :	IN.PT.	URB #	GE I   1 ME 5 = 1   (   = E 5	GMT SE M HH LOSTAMI	M→DA=¥R C	CAF	IERA-L Sens Typ	EN5 OR OR E	Film·	-EXPOSUR AND F	E ILTeR	TUDE	PRI	N.	a Z	ANG.	ANG.	510E. FWD. LAP B. R
										0 5-20-6 Phasi 76 Ripha													
L	4 L	L Can . AC 7	132 HAD • * 6 RIF	9-1 14.	95 425 5 N∓	29.59W 29.69 .FRAU	24 M Mauru	SHING	• 17250 • 188• • LAC 7!	7 5-20-6 PHA51 5 LETRONNI	7 LUNAR E= 72. E:Flams	ORB EHI	HI. 6101 S-ANG.= : L	1H B&# 9. 1C 93 H.	CAM+R	NONE AD•= Ga5sfn	2717K 4456•2 n1	4454 ! KM•	D98	1 5UN 94 F	3.4 @M\$A UTATI	19   86+2  5 <sub>+</sub> H <sub>+</sub> 1	-,50 NU
	LAC	76	нати	ŁU5	t t	W>1/2	"моон	SPHERE	LAC	7 5-20-6; PHAS; 125 SCHIL	LLER, 1	FWI	39 ARIS	TARCHUS	CAM+R	AD+=	4456+2	KH+	LAC	5UN 25	AZM= Cassi	86.2 N1.AL	LPS
t.	4 (	Z Lam•	139 Nad.=	42.1	7 N 8 2 N	28 • 25 W	25 1	5wing.	062940 267.	D 5-21-6; PHASE 74 GRIMAL	7 LUNAR	ONB	L0.F=801	H RGW	-	NONE	2872K	35900	000	172	1 - 6	20	- • 2 4
ı	LAC	24	21402	[H]	U I	⊌>1/2	MOON	SPHERE	1 LAC	9 5-21-67 Phase 74 Grinal	.01.8 1	LAC	S.ANG.= 5 PETER	S. MANN. H	CAM-R!	A() + =	ዓ <u>ሉ</u> ዑን # 2	# M S	LAC	5UN 14	AZH=1	79.1 100.5	STRA
L '	4 ; L	2 Lan• AC 2	3 KUH 440-=	41 + 2. 42 + 1 Ken , 1	2N 87N 5HAR:	53•38#   57•71; 	29	5w1NG	063426 279. W>1/2	5 5-23-67 Phase Huon sphe	7 LUNAR Em 76. Ere	ORB :	LO.F=ANA =. DMA.5 L.A	H B <sup>6</sup> * 6* C 73 H1	CAM+RI	NONE AD•= NE•ORII	2867K 4406+2 Ental	35837 KM•	500 LAC	115 SUN 1 N.	2+2 AZM=1 POLE	20 07•7 NEARS	<b>-,**</b>
ι!	5 !	1	138	7 - 4	85 405	16.83m 16.861	, 90	Swing.	202197 64.	PHASEUS HI	7 LUNAR -= 74.	ORB :	HI. 610H	Wan H	-	NONE	104s	170	492	:58	1.5	1 6	
L S	5 à	Z L Auta	138   441) • =	7 . 4 :	75	16.83A	60	** *** Suluc-	202147	8-15-67	LUNAR	ORB (	0 .F = 80H	H_86#	-	HONE	194K	1300	080	143	1 - 4	16	-,•0

- CAH-HAD+= 7-445 16-86W SHING# 69. PHASE# 74. EMIS.ANG.# 1. 1843.2 KM. SUN AZHE BALS EASTERN PART OF LAC 76 RIPHAEUS MI.FRAU MAURO L 5 | 139 7-175 16-80W 60 \*\*\* \*\*\* 202152 8-15-67 LUNAR ORB HI, 610HH B&#
- " NONE 104K 170492 153 1.2 16 CAM-HAD. 7-135 16-846 Swing. 59. PHASE= 74. EMIS+ANG+= 1. CAH+RAD+= 1843+2 KM+ SUN AZHE 8644 EASTERN PART OF LAC 76 RIPHAEUS MI.FRAU MAURO
- L 5 2 139 7-185 16-81# 60 -- -- 202152 8-15-67 LUNAR ORB LO.F=80MM 86W " NONE 104% 1300000 158 1-1 16 CAM-NAO+# 7+125 16+83W Salngm 64. PHASEm 74. EHIS.ANG.m E. CAM+RAD+= 1843+2 KM+ SUN AZM# 86.4 EASTERN PART OF LAC 76 RIPHAEUS MT.FRAU MAURO
- L 5 1 140 6.9.5 16.78# 60 \*\*\* \*\*\* 202157 8-15-67 LUNAR ORB HI\* 610HH BAA NORE 193K 168852 144 1.0 16 -+ 5 CAM-NAUS= 6.855 to-818 Swing= 50. PHASE= 74. ENIS-ANG.= 1. CAM+RAD+= 1842+2 KH+ SUN AZMW 86.5 EASTERN PART OF LAC 76 RIPHAEUS MI, FRAU HAURO
- € 5 2 140 6.695 16.79# 60 \*\*\* \*\*\* 202157 8-15-67 LUNAR ORB E0.F=80HM B6# NONE 103K 1287500 15B .9 16 - B7 CAMONADO 6.855 16.818 SWING 56. PHASE 74. EHIS.ANG. 1. CAM.PAD.= 1842.2 KH. 511N AZH= 86.5 LASTERN PART OF LAC 76 RIPHAEUS HT.FRAU HAURO

	HAG HULL H	-	IU PRIN <sub>e</sub> pt. Lat. Long	#	GET TIMES+HR (i=ESTIMA	M SEC	H-DA-YR	CAMERA→LENS ( SENSOR TYPE	JH FILM-E	XPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M=N+HI PT. K=KH+		L T SIN S ANG. ANG. FR. VERT	-
ر 5			6+585 16+79	r	Sainge	38.	PHASE =	LUNAR ORB H1. 6 74. EMIS-ANG FRAU MAURO			103K 168852 1842+2 KM+	-		-, 5
į b			0.575 16.79	n	SAING=	43.	PHASE =	LUNAR ORB LOSES 74. EMISSAN			103K 1287500 1842+2 KH+		•7 16 AZM# 86•5	87

TOTAL PHOTOS IN THIS GROUP # 155

# 1464 # L+66#

CAMENADER -USN 1-52W

SOUTHERN PART OF LAC 59 H. VAPORUM. HYGINUS

t 1 2 125 Journ 1.57m 73 \*\*\* \*\*\* 130221 8-25-66 LUNAR ORB CO.F=80MH 86%

Saing= 95.

77

SW ALMOST UNUSABLE PHOTOS. \* \* DEGRADED PHOTOS; THESE THU SYMBULS HEAT TO MAIN OR PHOTO NUMBER HEAN; FILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS NEXT TO MAGN. BERRACKET MOUNTED: G. CAM. ON GROUND W = APPHUXIMATELY  $(-)_{+}(+)_{+}(-)_{+}$  OR(0) = NU INFO SN.A. . SUPER WIDE ANGLE LENS! EKTHEEKTAR 2.8 LENS! MAURE HAURER: ZP. ZB. ZS & ZEISS LENSIPLANAR, BIOGEN, SONAR): FOCAL LENGTH (MM) & MAX.F-OPENING CANERA-LENS AS FOLLOWS: HOB# HASSELBLAD: iu+ AS EXPUS SPEED # 1/1000 FOR +# TWO ZEROS) COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHUTO: SCALE 15 THE XXX OF 1,XXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

	COLUMN HEADINGS APPLY TO FIRST	DATA LINE OF EACH	PHOID! SEARE IS	.,,,			
# ? [ ถห	HAG FR.PHUTU PHIN.PT. UNB GET GMT RULL OR LAT. B TIMES-HR H S B MAIN LUNG. (*=ESTIMATEU	))	14, 2		Kaku.	VERT	K. *
	2 118 6-28N 2-55N 73 1302 Cam-Hau-= -26N 2-47n Swing= 930 Southern Part of Lac 59 H-Vaporum.H	Y C I NUS	& NURTHERN	PART OF LAC 77	TOUR OF THE U.		
	2 119 0.25H 2.41H 73 13U. CAH-NAD.= .23H 2.34H SAING= 93	207 8-25-66 LUNAR • PHA5E= 68•	ORB LO.F.ADHM BU EMIS-ANG.* 3. & NORTHERN	,n = HONE CAM+RAD+= PART OF LAC 77	1791+2 KH+ PTOLHAEUS+KLF1N		
	2 120 0.224 2.274 73 0.0 0.00 130 CAM-HADO= .21N 2.20N SAING= 93	210 8-25-66 LUNAR • PHASE= 68• Valuus	ORE LO.F.EOHN BE EHIS.ANG.= 2. L. NORTHER	N PART OF LAC 77	BIDEMY FOR TWEE IN		
	Z 121 U-19H 2-13W 73 13B CAN-HAD-# -18H 2-D6W SWING# 94	212 8-25-66 LUNAR • PHASE= 68•	OPB LO.F.BOMM BA EM15.ANG. 2. & NORTHERS	<sub>SW</sub> − NONE Camerade# N Part of Lac 77	52K 65UOOU 1791+2 KH+ PTOLHAEUS,KLEIN	285 2+1 20 SUN AZM# 88+5	<b>-,87</b>
	2 122 0-160 1-988 73 0-0 0-00 130 CAM-NAD-= -150 1-930 SainG# 94	214 8-25-66 LUNAR  - PHASE= 68-	ORH LO.F.BOMM R. EMIS-ANG. = 2. & NORTHER	6W → NONE CAM+RAD+# N PART OF LAC 77	1790.2 KM. PTOLHAEUS.KLFTN	SUN AZHE 88.4	
	2 123 U+13N 1+840 73 +++++ +136 CAM+HAD+# +12N 1+79% SWING# 94	3216 8-25-66 LUNAR 1. PHASE= 68.	ORB LO.F=BOHM B EMIS-ANG.= 2. & NORTHER	GN = NONE CAM-RAD.= N PART OF LAC 77	1790+2 KH+ PTOLMAEUS, KLEIN	SUN AZH# 88+	
է 1	2 124 0-108 1-718 73 000 0000 131 CAM-84D-0 0-98 1-668 SWINGS 94			31011	. 416 63/700		- , R 7 4

SOUTHERN PART OF LAC 59 M. VAPOHUM HYGINUS - NONE 51K 637500 287 1+4 21 E 1 2 - 126 4-04H 1-43# 73 \*\*\* \*\*\* 130223 8-25-66 LUNAR ORB LO.F=HOMM 86# SUN AZM# 88+4 CAH+RAD+# 1790+2 KH+ PHASE\* AB. EMIS-ANG.\* 1. Sw146= 95+ 6 NORTHERN PART OF LAC 77 PTOLMAEUS. KLEIN CAMENADER #13N 1+39# SOUTHERN PART OF LAC 59 H-VAPORUM, HYGINUS

PHASE# 68. EHIS.ANG.# 2.

& NURTHERN PART OF LAC 77 PTOLHAEUS. KLFIN

& NORTHERN PART OF LAC 77 PTOLHAEUS, KLEIN

CAH+RAD+= 1798+2 KM+

- NONE 51K 637500 286 1+6 21

SUN ATHE BR.4

PAGE 247

2101	HOLL		LAT.			ILME5-HK	H SEC			SEHSOR					TUDE	PRIN. I PT.	A Z	L T SUN S ANG. ANG. FR. VERT	F#D.
į l	Z Can.	127 U NAD•= 50UTHE	•UIN •UUN KN PART	1.29W 1.25W UF LA	73 ( 59	M+VAPOKU S#1NG=	130225 96. H.HYGI	8-25-66 PHASE= US	LUMAR 68.	ORB LO EMIS.	.F#80HM Ang.# North	BUM I. Ern par	CAM•RA T OF LA	NANE D•# C 77	51K 1790•2 Ptolhae	KH. RH. US.KLEIN	287 SUN	1-3-21 AZM# 88+4	-,87
įl		H A U . =	•435	1 - 12 7		•;• •••• Swing≈ Ptolhaeu	97.	PHASE .		EHIS.	ANG.=	1.	CAM . RA	D • •	1798+2		SUN	[+1 2] A7M= 88.4	
L A		MAD.=	165	0.985		SHINGE PTOLMAEU	97.	PHASE		EHIS.	ANG	1.	CAMORA	D • =	1790.2		SUN	1.0 21 AZMm 88.4	
i I		14 AU + =	•495	0+850		SWING= PTOLMAEU	99.		LUNAR 68.	EH15.	ANG.=	1.	CAHORA	0 • =	1790 • 2	637500 KM+ UM.HYGIN	SUN	.9 21 AZH= 88.3	87
ιI		HAD +=	-115	U • 72#			100.	PHASE=		EM15.	ANG.=	1.	CAHERA	D	1790+2		SUN	+7 22 AZM= 88+3	
į i			.145	0.58*		SALNG Salng Piolhaeu	1C2.	PHASE		EMIS.	ANG.m	t.	CAM-RA	D + m	1790+2		SUN	+6 22 AZH <sub>W</sub> 88+3	
L I	C AH =	HAD • =	.175	0.45%		2 % I NG =	106+	B-25-66 Phase=	68.	EH15.	ANG . =	1.	CAH+RA	D • =	1790 - 2	637500 «M• UM•HYGIN	SUN	+5 27 AZM= 88+3	-,87
i i				4.21%		5*146*	194.		55.									+S 35 A7Mm 85+7	
į, į	2 CAH•	142 3 NAD+=	+565 3+515	3.69#		241110=	232.	8-26-66 PHASE: PLHAEUS:KL	55.	ORB LO Emis.	.F=AOMM Ang.=	86W 1.	- CAM+RA	NONE	50K 1789.2	6 <b>2</b> 5000 KM•	63 SUN	•8 36 AZM= 85•6	
ιl				3-164		SHINGE	246.		55.									1+3 36 AZH= 85+4	
ı i		144 3 Had•#		2.63#		5%   NG=	253.	8-26-66   PHA5E   LHAEUS+KL	55.									1+8 37 AZM# 85+3	
į, i		145 3 440.=		2.086		541166#	257.		55•						_			2+4 38 AZM# 85+1	

CAR-HAD-= -33H 1-43H

A CONTRACTOR OF THE PROPERTY O

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		ORIGINAL ***	
n 210	MAG FR.PHOTO PRIN.PT. ORB GET GHT M-DA-YR CAN I RULL UR LAT. # TIMES-HK M SEC # MAIN LUNG. (I#ESTIMATED) #	SENSOR AND FILTER TYPE	K#KH+ VERT S. S
i, i	2 146 3.955 1.44W 83 233310 8-26-66 LUNAR CAM.WAD. 3.955 1.53W SWING 259. PHASE 55. N. W. PART OF LAC 77 PTOLMAEUS.KLEIN	ORB LO:F=80MM B&W T NONE EMIS-ANG.= 3. CAM-RAD.#	54K 67580C 91 2.9 3850 1793.2 KM. SUN AZH# 85.0
į į	2 147 4-L7S U-BSW 83 0-0 0-0 233319 8-26-66 LUNAR CAM-NAD-= 4-J7S U-96N SWING= 261. PHASE= 55. NURTHERN PART OF LAC 77 PTULMAEUS-KLEIN	ORB LO.F=BUMM R&W - NONE EMIS.ANG.= 4. CAM.RAD.=	55K 687500 92 3.5 3950 1794.2 KH. SUN AZM# 84.8
E I	2 148 4-195 U-26N 83 233329 8-26-66 LUNAR CAM-HAD.= 4-185 U-39W SWING= 262. PHASE= 55. NURTHERN PART OF LAC 77 PTULHAEUS-KLEIN	ORB LD.F. BOMM BOW - NONE EMIS.ANG. H. CAM.RAD.	56K 700000 94 4+1 39 -+51 1795+2 KM+ SUN AZM# 84+6
ιZ	1 93 U-21N 1-10H 71 0-0 0-0 092737 11-21-66 LUNAR CAH-NAD.= 4-15H U-31H SWING= 1- PHASE= 76-50UTHERN PART OF LAC 59 H-VAPORUM-HYGINUS	CHIS-4NC = 72. C49.000	1965 5
ι 2	2 93 L-23N 1-08W 71 092737 11-21-66 LUNAR CAN-NAD-= 4-15N 8-31W SWING= 1- PHASE= 76-50UTHERN PART OF LAC 59 M-VAPORUM-HYGINUS	ORB LO.F. BOMM BON - NONE	44K 55nngg 191 A8+2 12++
ι 2	2 115 0-64N 0-99W 8U 00* 0000 164913 11-22-66 LUNAR LAM-MAD-# 065N 1-03W SWINGM 271. PHASEM 63. SOUTHERN PART OF LAC 59 N*VAPORUM-HYGINUS	ORB LO.F#BOHH BOW - NONE	47x 5875n0 1n3 1.5 2887
į 2	2 116 U-61N G-86W 8U* 164915 11-22-66 LUNAR CAM-HAD-# -6ZH G-9QW SWING# 271- PHASE# 63- SOUTHERN PART OF LAC 59 M-VAPORUM-HYGINUS	URB LO.F=80MM B&W + NONE	47K 587500 103 1.6 28 -,87
Ł 2	2 117 0-584 0-738 80 0-7 0-78 164918 11-22-66 LURAR CAM-HAD-= -59N 0-788 5%ING= 270- PHASE= 63-50UTHERN PART UF LAC 59 N-VAPORUM-HYGINUS	URB LO.F=80MM B&W - NONE	47K 587500 103 1.7 2887
L 2	2 118 U-56N D-60M 80 *** *** 16492C 11-22-66 LUNAR CAM-HAD-# -57N D-65M SWING# 270. PHASE# 63. SOUTHLEN PART UF LAC S9 M-VAPORUM-HYGINUS	ORB LO.F#80HM 86W - NONE	48K 600000 102 1.9 28 ~.87
t Z	2 119 U-53H U-47W 80 *** **** 164922 11-22-66 LUNAR	ORB LO.F=80MM B64 - NONE	48K 60nnn in2 2:0 29 +.87
ιZ	2 120 U-50N 0-34W BC +++ ++++ 164924 11-22-66 LUHAR CAM-MAD-* +51N G-4UH 5WING= 270+ PHASE= 63+ 50UTHERN PART OF LAC 59 M-VAPORUM-NYGINUS		
L Z	2 121 0-320 1-400 81 0-0 0-00 201812 11-22-66 LUNAR	ORB LO.F.BOHM BEW - NONE	49K 612500 102 1+3 29 -,++
	SABANANA 3.40	CHIE AND - 1 AND	

SWING= 270. PHASE= 62. EHIS.ANG.= 1. CAM.RAD.= 1788.2 KM.

SOUTHERN PART OF LAC 59 M. VAPORUM. HYGINUS & NORTHERN PART OF LAC 77 PTOLMAEUS. KLEIN

85246 104 1•4 31

SUN AZM# 90.4

~ NONE 52K 85 ...CAM+RAU+= 1791+2 KM+

& SOUTHERN PART OF LAC 59 M. VAPORUH. HYGIKUS

L 2 1 129 0.045 1.63W 82 ... ... 234714 11-22-66 LUNAR ORB HI. 610MM BEW

Sw146= 272.

HORTHERN PART OF EAC 77 FTOLHAEUSIKLEIN

CAM-HAD-= +435 4+67H

		-7.5						
M15 510#	MAG FR.PHUIO PRIN.PT. C RULL UR LAT. H MAIN LUNG.	JRB GET GMT w times-hr m sec (i=estimated)	M-DA-YR CAME	ERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. H=N.HI PT. K=KM.	FR.	IDE: FWD, LAP
լ 2	2 122 0-29N 1-26W CAM-NAD-# -30N 1-3UW SOUTHERN PART OF LAC	81 0.0 0.00 201814 Swing= 2700 59 Movapohumahygi	11-22-66 CUNAR Phase= 62. Nus	ORB LO.F=80MM EMIS•ANG•# & NORTH	BGW - NONE I· CAH·RAD·+ ERN PART OF LAC 77	49K 61250U 1788•2 KH• PTOLMAEUS•KLEIN	102 1+4 30 SUN AZM# 90+6	-,87
ί2	2 123 U-26N 1-13K CAM-NAD-# -27H 1-17W SOUTHERN PART UF LAG	81 *** *** 201816 Salu6= 270.	11-22-66 LUNAR PHASE= 62.	DRB LO.F=80MM	86W - NONE Z. CAM-PAD-=	50K 625000	102 1+5 30 SUN AZH# 90+6	47
ί2	Z 124 U-23H U-99N CAM-HAD-= -24N 1-04W SOUTHERN PART OF LAG	5W1NG± 27U•	PHASE= 62.	EMIS.ANG.	Z• CAM+RAD+#	178405 Eus	SUN AZME FORB	-,A7
	i 125° U°26N U°87N Cam'nado= °22N U°92N Suuihenn pari of La	5WING= 273. C 59 M.VAPORUM.HYGI	PHASE= 62.	EHIS.ANG. = & NORTH	Z. CAM-RAD-# ERN PART OF LAC 77	PTOLMAEUS.KLEIN	SUN AZM# 7045	
ι 2	Z 125 J-ZUN 0:868 CAM-HAD.= -ZIN 0-918 SOUTHERN PART OF LA	SWING# 270+	PHASE≠ 62•	EMIS.ANG.=	Z. CAMERAU.	1787+2 Km+	30" KY" - 70"3	-,87
L 2	1 126 0-17N 0-73W CAM-NAD-= -19H 0-78W SOUTHERN PART OF LA	Swing 273.	PHA5F= 62.	EMI>+ANG+=	Za (AUSKADam	I YORRE KUR	July Maile	-, 6
	2 126 U+18N G+72W CAM+NAD+= +19N U+78W SOUTHERN PART OF LA	C 58 M+AMBGROM*HACI	PHASE 62. INUS	EMIS+ANG.= & NORTH	ERN FART OF LAC 77	PTOLMAEUS.KLFIN	3014 #211- 7-143	
į 2	L 127 U+14N 0+59M CAM+NAD+# +16N 0+65M SOUTHERN PART OF LA	5×1N6= 273.	PHASE⇒ A2.	EMID-ANG.=	Z. LANGHAU.=	/ B Y + Z   K     *	30" MEN - 11143	<b>-</b> . 6
	2 :27 U+15N U+5BW CAM+NAD+= +16N U+64W SOUTHERH PART OF LA	SWING# 270. C 59 H.VAPORUM.HYG	PHASE 82.	EMISONNGOP 6 NORTH	LERN PART OF LAC 77	PTOLMAEUS. KLETH	Still Reina 1013	
	1 128 U.12N U.46W CAM.HAD.* 13K G.52N SOUTHERN PART OF CA	SWING# 273. C 59 M+VAPORUM.HYG	PHASE 62.	EMIS.ANG.= 6 NORTE	2. CAMORADOR HERN PART OF LAC 77	1790+2 KM+ PTOLMAEUS+KLETN	SUN AZM# 90+5	
<b>, 2</b>	2 128 U+12N U+44W Cam-Had+P +13N 0+51W Southean Part Uf La	. SWING 270-	PHASER A2.	. FMIS.ANG.=	∠• CAM+RAD•π	\$ \$ \$ \$ 11 9 % K # 4	SOM MEUR LOAD	-,87

PHASE 60. EMIS.ANG. 1.

. 71	LAC 77 PTOLMAEUS. KLEIN	
# 17A.144	IN-PT. URB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TIL T  N TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG LUNG. (IMES][HATED] TYPE M-N-MI PT. FO	. ANG. FWD.
L 2 2 129 0+045 CAH+NAD+= +035 NOKTHEHN PART	K*KH. VEI  1.62** 82 *** *** 234714 LI=22=66 LUNAR ORB LO.F=80MM 86** — NONE 52** 650000 99 L  1.66** SWING= 267. PHASE= 60. EMIS.ANG.= 1. CAM.RAD.= 1.791.2 KH. SUN AZMI  5. SOUTHERN PART OF LAC 59 M.VAPORUM.HYGINUS	RT
LAN-MAD	1.53% SWING. 272. PHASE: 60. EMIS.ANG 2. CAM-RAD. 1791.2 KM. SUN AZM.	5 31 6
	1.53M 5W14Gm 268. PHASEM 60. EM15.ANG.M Z. CAM.RAD.M 1791.2 KM. SUM AZM. UF LAC 77 PTOLMALUS.KLEIN	
	1+39W SHING= 272. PHASE= 60. EMIS+ANG.= 2. CAH-RAD.= 1791-2 KM. SUN 274-	9 n
	1.39W	0 ^
	1.25W SWING= 272. PHASE= 60. EMIS.ANG.= 2. CAM.PAD.= 1792.2 KM. SUM.279.	
	1+25H SHING# 268. PHASE# 60. EHIS.ANG.# 2. CAM-RAD.# 1792.2 KM. SUM.ARM-	00 "
6 2 2 141 6.146 .	I.IIW SWING= 271. PHASE= 60. EMIS.ANG.= 2. CAM.RAD.= 1792.2 KH. SUN AZM=  OF LAC 77 PTOLMAEUS.KLEIN 6 SUN AZM=  6 SOUTHERN PART OF LAC 59 M.VAPORUM.HYGINUS	40+3
	5 SOUTHERN PART OF LAC 59 M.VAPORUM, HYGINUS  1-11W SWING= 268+ PHASE= 60+ EMIS-ANG+= 2+ CAM+RAD+= 1792+2 KM+ SUN AZM=  UF LAC 77 PTOLMAEUS+KLEIN 5 SOUTHERN PART OF LAC 59 M.VAPORUM, HYGINUS  -91W 82 *** *** 234725 11=22=44 LUMB RESE** 1792+2 KM+ SUN AZM=  -91W 82 *** *** 234725 11=22=44 LUMB RESE** 1792+2 KM+ SUN AZM=	32 -,87 90+3

- L 2 i i34 u•205 0•91% 82 ••• •••• 234725 i1=22-66 LUNAR ORB HI• 610MM R6W CAM-NAD-# .185 0.97W SWING# 271. \* NONE 53K PHASE# 60. EMIS.ANG.# 2. 86A85 IN3 2+1 32 MORTHERN PART OF EAC 77 PTOLMAEUS. KLEIN CAM+RAD+# 1792+2 KH+ SUN AZH# 90+3 & SOUTHERN PART OF LAC 59 M. VAPORUM. HYGINUS
- L 2 2 134 J-195 (1.90# 82 +++ ++++ 234725 11=22=66 LUNAR ORB LO.F=80MM B&W CAM-NAD .= .185 0.960 SWING= 268. \* NONE 53K 662500 100 2.1 32 -.87 PHASE# 60. EHIS.ANG.# 2. MORTHERN PART OF LAC 77 PTOLMAEUS-KLEIN CAM+RAD+= 1792+2 KH+ SUN AZM= 70+3 & SOUTHERN PART OF LAC 59 H. VAPORUM, HYGINUS
- L 2 I 135 U.235 U.76W 82 ... 234728 11-22-66 LUNAR ORB HI. 610MM R6W CAM-HAD-= +215 U-R3H SWING= 271-- NONE 53K PHASE = 60. EMIS.ANG. = 2. CAM.RAD. = 1792.2 KH. SUN AZM = 90.3 86885 In3 2.2 32 NORTHERN PART OF LAC 77 PTOLHAEUS.KLEIN 6 SOUTHERN PART OF LAC 59 H. VAPORUM. HYGINUS

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				1 AGE 271
H15 510N #	MAG FR.PHUIU PHIN.PT. UH HULL UH LAT. : MAIN LONG.	RB GET GHT M=DA=YR CAR F TIMES=HR M SEC (=ESTIMATED)	MERA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. H#N.HI PT. FR. LAP K#KH. VERT 8.8
( 2	2 135 G-235 G-75W E CAM-NAD-# -215 G-82W NONTHERN PART OF LAC	32 *** *** 234728 11*22-66 LUNAI SWING= 268* PHASE* 60. 77 FICLMAEUS:KLEIN	R ORB LO.F=80MH B&W - NON! • EMIS.ANG.= 2. CAM.RAD.= & SOUTHERN PART OF LAC 59	E 53k 662500 100 2+3 3287 1792+2 km+ Sun <sub>A</sub> zm= 90+3 m+vaporum <sub>+</sub> hy <sub>gi</sub> nus
ι 2	CNU+MVO+	PHASE# 40.	R ORB HI. 610MM R&W - NON EMIS.ANG.= 3. CAM.RAD.= & SOUTHERN PART OF ŁAC 59	E 54K 88525 1∩3 2+4 32 -+ 4 1793+2 KM+ SUN AZM≈ 9∩+3 M+VAPORUM+HYGINUS
L Z	2 136 6-265 0-60W E CAM-NAD-* -245 0-67W NORTHERN PART UF LAC	02 *** *** 234730 11-22-66 LUNAT Swing= 268. Phase= 60. 77 Ptolmaeus:Klein	R DRB LO.F=80MM B&# - NONI , EMIS.ANG.≈ 3. CAM.RAD.≈ & SOUTHERN PART DE LAC 59	E 54K 675000 100 2+4 32 -+87 1793+2 km+ 5un Azm= 90+3 M+VAPORUM,HYGINUS
ί 3	1 84 0.80N 1.04W 6	74-44 +44 003514 2-18-67 LUNAY Swing= 32. Phase= 16.		E 47K 77049 258 67+4 10 -1+4
լ 3	2 84 0.80N 1.03N 6	2 *** **** 003514 2-18-67 LUNA; 5w1ng= 32* Phase= 15.		47K 587500 258 47+4 10
ί3	4 90 1-01N 1-05W 6	54 *** *** 073219 2-18-67 LUNAF		E 46K 5750NO 2N1 23+5 13 -,87
l 3	2 91 0-96N 0-92W 6	4 ••• ••• 073221 2=18-67 LUNAR Swings i. Phase 70.		E 46K 575000 201 23.5 1487
į 3	2 92 0-91N 0-79W 6	.4 *** **** 073223 2=18+67 LUNAR		46K 575000 2n1 73.5 1487
i. 3	2 93 U-BEN U-66H 6 CAN-HAD-# I-HBN U-42H SUUTHERH PART OF EAC	.4 *** **** 073225 2*18-67 LUNAR Swing= u. Phase= 70. 59 m*Vaporum.hyginus	R ORB LO.F.#80HM B&W NONE , EMIS.ANG.# 24. CAM.RAD.# & NORTHERN PART OF LAC 77	: 46K 575000 201 23+5 1488 1785+2 km. SIIN AZM= 91.7 PTOLMAEUS,KLEIN
<b>. 3</b>	Z 99 U+69N 1+03W 6 CAH+NAD+= +94N D+93W SOUTHERN PART OF LAC	.5 *** *** 110121 2-18-67 LUNAR Swing= 360* Phase= 72. 59 M*Vapurum,hyginus	R URB ŁO.F. BUMM RGW - NONE EMIS.ANG. BIO. CAM.RAD. B B NURTHERN PART OF LAC 77	45K 562500 2n0 10+1 1587 1784+2 km+ Sun Azm= 91+7 Ptolhaeus,klein
<b></b> 3	CAM-NAD-# #890 U-82W	Swing 359. Phase 72.	R UHB LO.F.#BOHM BGW - NONE . EMIS.ANG.# 10. CAM.RAD.# . NORTHERN PART OF LAC 77	1784+2 KH+ SUN AZK# 91+7 PTOLHAEUS,KLEIN

L 3 2 (U) U+64N U+79W 65 ++\* ++\* 110125 2=18=67 LUNAR ORB LO.F=80HM 86W - NONE 45K 562500 199 10+1 15 ++87 CAM+NAD+\* +85H U+7UW SWING= 358+ PHASE= 72+ EHIS+ANG+\* 10+ CAM+RAD+\* 1784+2 KM+ SUN AZM= 91+7

SOUTHERN PART OF LAC 59 H. VAPORUM, HYGINUS & NORTHERN PART OF LAC 77 PTOLMAEUS, KLEIN

				PAGE 252
a	# HAIN	M=N+HI PT.	AZ ANG. FR.	ANG. FWD.
	CAH-HAD.= 1.	K*K**  4N 5-70W 67 *** *** 175809 2**18*67 LUNAR ORB LO*F*80MM B&W - NONE 45K 562500  PART UF LAC 59 M*VAPORUM*HYGINUS - NO. #** PART OF LAC 77 PTOLMAEUS*KLEIN	2n3   8+9 SUN AZMm	14 *+51 91+7
į 3	4 165 6-5: CAM-NAD-** 1-: S- n- I	6N 5-20% 67 *** *** 175818 2-18-67 LUNAR ORB LU-F=80MM 86% - NONE 45K 56250U U3N 5-01% SWING= 1: PHASE# 70= EMIS-ANG.= 19 CAM-RAD.= 1784-2 KM:	2n1   18.9 SUN AZH# 1	155n 91.7
	CAH-HAD-W S. n. f	94N 4-52W SWING 359. PHASE 70. EMIS-ANG 19. CAM-RAD- 1784-2 KM.	200   16.9 Sun Azme '	91.6
	CAM-NAD-= -2	145 5.56% SWING= 357. PHASE= 71. EMIS.ANG. 5. CAM.RAD. 1783.2 KM. N. W. PART OF LAC 77 PTOLMAEUS.KLEIN	198 5+2 SUN AZM# 9	71 • 4
		5 5.59W 69 005616 2-19-67 LUNAR ORB LO.F=80MH B6W - NONE 44K 550000 ART OF LAC 77 PTOLHAEUS.KLEIN 6 5. W. PART OF LAC 59 M.VAPORUM.HYGINUS	SUN ATM 9	11_4
	1 108 4.38 CAM.NAD.= 4.3	S 3-28E 70 042754 2-19-67 LUNAR ORB HI. 610HH B6W - NONE 51K 83607 85 3-25E	5	
		S 3.28E 7D 042759 2-19-67 LUNAR ONB LO.F=ROMM BLW - NONE SIK 63750D BS 3.26E Swing=246. Phase=62. Emis.ang.= 1. Cam.rad.= 1790.2 km. s N. E. Part of Lac 77 Ptolhaeus.klein	87 +7 Un Azna 8	28 9.3
		S 3.80E 70 000 0.00 B42803 2-19-67 LUNAR ORB H1. GIONM B6W - NONE 52K 85246 1 7s 3.76e Swing=26g. Phase=63. Emis.ang.= 1. Cam.rad.= 1791.2 km. s n. e. Part of lac 77 Ptolmaeus.klein	00 1+3. UN A2Hm 8	29 <b>~,**</b>
		S 3.81E 70 *** *** 042803 2-19-67 LUNAR URB LO.F=80MM BGW - NOME 52K 450000 75 J+77E Swing=256* Phase= 62* Emis*Ang*= 1* Cam*Rad*= 1791*2 km* S N* E* Par <sup>t</sup> UF lac 77 Ptulmaeus*Klein	UN AZME 89	9 . 1
		9 4.34E 70 000 0.00 042812 2-19-67 LUNAR ORB HI. 610MM 86W - NONE 53K 868R5 1 75 4.28E Swing= 263. Phase= 63. Emis.ang.= 2. Cam.rad.= 1792.2 km. S 4. E. Pari of Lac 77 Piolmaeus.klein	UN AZM <sub>ir</sub> 89	7•0
		. 4.356 7J *** *** 042812 2-19-67 LUNAR ORB LO.F=BOMM R&W * NONE 53K 662500 IF 'S 4.29E Swing= 26D. Phase= 62. Emis.ang.# 2. Cam.rad.# 1792.2 km. SU H. E. Part of Lac 77 Ptulmaeus.klein	)! 1+8 2 }}! AZH= 89	!? <b></b> 51
. 3	I	4-88E 7J *** **** 042821 2*17*67 LUNAR ORB HI: 610HH 86# -* NONE 54K 88525 18 S 4-81E Swing: 264. Phase* 63. Ehis-Ang.* 3. Cam-Rad.* 1793:2 kh- si N= E= Pari UF Lac 77 PTULHAEUS:KLEIN	15 2+4 3 In Azma 88	:0

310	MAG FR.PHUIU F I KULL OR LAI # MAIN #		TIMES-HR M SEC		SENSOR	FILM-EXPOSURE AND FILTER	TUDE PRIN. M=N.HI PT.	AZ ANG. ANG.	FWD.
į 3	2 111 4.995 CAM-MAD.= 4.975		*** **** 042821 Sminum 263* Of Lac 77 Pto		ORB LO.F=80MM EMIS-ANG.= 2	B&W " NONE CAM-RAD-#	54K 575000 1793+2 Kh+	in3 2+3 30 SUN AzM# 88+8	-,51
ί3	I 112 1-835 CAH-NAD.# .875		*** **** 075345 Swing= 1. Uf Lac 77 PTO		ORB HI. ALOMM EMIS.ANG. = 36	R&W + NONE • CAM•RAD•#	44K 72331 1783+2 KH+	ZD1 35+4 19 SUN AZM# 90+9	-,••
į <b>3</b>	4 112 1-035 CAM-HAD-# +875	7.81W	*** *** 075345 Swing= 1* Of Lac 77 Ptu	PHASE - 45	ORB LO.F=80MM EMIS.ANG.= 36	R&W - NONE • CAM•RAD•=	44K 550000 1783+2 KM+	201 35+3 19 SUN AZH# 90+9	-,••
ί3	1 113 1-885 CAM-NAD-= .925	7.684	*** **** 075347 Swing= 1* UF LAC 77 PTU	Z-19-67 LUNAR PHASE# 63. LMAEUS.KLEIN	URB HI, 610MM ( EMIS+ANG+# 36	R&# - NONE - CAM+RAD+= - E LIMB OR HORI</td><td>44k 72(3) 1783+2 kH+ ZON</td><td>201 35+4 19 SUN AZM= 90+9</td><td>-, 6</td></tr><tr><td>( <b>3</b></td><td>2 113 1+865 CAH+NAD+# +925</td><td>8 • 0 6 W 7 I</td><td>*** **** 075347</td><td>2-19-67 LUNAR</td><td>ORB LO.F=80MM EHIS.ANG.= 36</td><td>B&W - NONE • CAM•RAD•# & LIHB OR HORI</td><td>44K 550000</td><td>201 35+3 19 SUN AZH# 90+9</td><td>-,87</td></tr><tr><td>ί3</td><td>i 114 1•945 CAM•NAŬ•= •975</td><td></td><td>*** **** 075349 Sming* U* Of Lac 77 Ptu</td><td></td><td>URB HI. 610MM ( EMIS.ANG.= 36</td><td>A&W - NONE • CAM•RAD•#</td><td>44K 72131 1783+2 KM+</td><td>201 35+4 19 SUN AZH# 90+9</td><td><b>-,</b> 6</td></tr><tr><td>( 3</td><td>2 119 1.995 CAM-MAD-# .785</td><td></td><td>*** **** 075349 Swing# 1* UF LAC 77 PTU</td><td></td><td>URB LG.F=80MM   EMIS.ANG.= 36</td><td>R&# T NONE CAM+RAD+#</td><td>44K 5500n0 1783+2 KM+</td><td>201 35+3 19 SUN AZM# 90+9</td><td>-,87</td></tr><tr><td>į 3</td><td>1 115 1.495 CAM-NAU-# 1.435</td><td></td><td>••• ••• 075352 Swings u. Uf Lac 77 Ptu</td><td></td><td>ORB HI, 610MM ( EMIS-ANG. = 36</td><td>B&W - NONE • CAM+RAD•#</td><td>44K 72131 1783+2 KH+</td><td>201 35.4 19 SUN AZH= 90.9</td><td> 6</td></tr><tr><td>į 3</td><td>2 115 1-975 CAM-NAD-# 1-U35</td><td>7.404</td><td>••• •••• 075352 Swing= 0• Of Lac 77 Pto</td><td>PHASE AL.</td><td>ORB LO.F=BOMM E EMIS.ANG.= 36</td><td>BGW - NONE CAM-RAD-=</td><td>44K 550000 1783•2 KM•</td><td>201 35+3 19 5UN AZM= 90+9</td><td><b>-</b> , 87</td></tr><tr><td>i, š</td><td></td><td></td><td>*** **** 112349 Swing= 356* 1 Of Lac 77 Ptul</td><td></td><td>GRB HI. 610MM E EMIS•ANG•# 60</td><td>S6W - NONE CAM-RAD-E</td><td>47K 77n49 1786•2 KM•</td><td>196 6.4 24 SUN AZM# 90.2</td><td>-,••</td></tr><tr><td>ι 3</td><td></td><td></td><td>*** **** 112349 Sningm 356. 1 Of Lac 77 Pfui</td><td></td><td>ORB LO.F#80MM F EMIS.ANG.# 6.</td><td>SEW - NONE CAN+RAD+#</td><td>47K 587500 1786+2 KM+</td><td>197 6+3 24 SUN AZH# 90+2</td><td>-,••</td></tr><tr><td>1, 3</td><td></td><td></td><td>*** **** 112357 Sming= 351* OF LAC 77 PTOI</td><td></td><td>ORE HI. SIOHM R EMIS-ANG.= 7.</td><td>LEK - NONE CAM+RAD+#</td><td>47K 77049 1786•2 km•</td><td>192 6+4 25 SUN AZH# 90+1</td><td>-,**</td></tr></tbody></table>			

L 4 2 106 72-165 9-45E 20 \*\*\* \*\*\* 160406 5-18-67 LUNAR ORB LO-F=80MM B&W

LAC 137 NEWTON , NO : WOLVE MOON SPHERE : LAC 129 M. AUSTRAL : LAC 131 PRANDTE PLANK

Swing= 272.

LAN-HAU-# 71-715 13-376

" NONE 3534K 44175000 104 3.4 9 -...

50N AZH= 58+0 & LAC 144 SCOTT, S.POLE

5273+2 KH+

CAM + RAD + =

**		LAC 77 PTOLMAEUS	KLEIN					PAGE 254
n n Ma	AIN LUNG.	URB GET GHT B TIMES-HR H SEC (		TYPE	AND FILTER	TUDE PRIN. M=N.HI PT. K=KM.	AZ ANG. FR. VER	ANG FWD. Lap T 8. 9.
CAM+HAD+	3•295 3•91W 3•135 3•87W NORTHERN	72 *** *** 112357 SWING# 352* PANT OF LAC 77 PTO	2-19-67 LUMAN PHASE= 64. PLMAEUS+KLEIN	? OR8 LO+F=BOMM   EMIS+ANG.=	B&m " NONI 6. CAM-RAD. #	47K 5875n0 1786•2 KH•	192 6+ SUN AZMm	3 25 -+51 90+1
CAM-WAD.		72 *** **** 112405   Swing= 347*   Part Of Lac 77 Ptu		? URB H!, 610MM , EMIS+ANG+±	B6W " NONI 7. CAM-RAD.	E 47K 77049 1786+2 KM+	187 6. SUN A7M=	5 <b>25**</b> - 90+0
CAM-HAD-		72 *** *** 112405 5#ING= 347; PART OF LAC 77 PTO	PHANES AY.	ORB EO.F.BOMM EMIS-ANG.=	86W - NONE 7. CAH+RAD+=	47k 5875n0 1786+2 kM+	188 6. SUN AZM=	4 2551 90.0
L 3 1 119 CAM-NAD-		72 *** *** 112414 5WING= 342* PART UF LAC 77 PTU	TORRER AND	URB HI. 610MM Emis.ang.=	B&W = NONE 7+ CAM+RAD+≈	1787 5 KM .	183 6= SUN AZM#	6 26 89.9
	NORTHERN	72 *** *** 112414 SWING# 343. PART OF LAC 77 PTO	LMAEUS, KLEIN	Culleride-	Canadabam	1787•2 KM•	SUN AZM=	87.9
		18 *** *** 171241 5wing= 324, Piolhaeus, : Lac 9	- vondachijak ;	ERC YO ALVAI	SCARP "HEREK	& LAC	59 M. VAI	PORUM, HYG
LAC 59 M.	VAPORUM.HYGINUS	5WING= 60. \$ LAC 60	J.CAESAK, SABIN	E-TANZEN : FUC	TO CAMERADOR  42 M.SERENITY.DAWS	4444.2 KM: S & LAC	SUN AZHE 41 APENNI	94.7  NES.HA
LAC 113 MAUR	OLYCUS, RAB.LEVI	19 ••• •••• 044237 Swing= 295. 1 w>1/2 HOO	N SPHERE : LA	C 140 SCHRODING	G ; LAC 129 H-AUST	4717+2 KM+ RA ; LAC 77 PTO	SUN AZMO LM & lac	68•  C 80 LANGR
EASIERN PA	RT UF LAC 77 PT	SWING# 336. ULHAEUS, 1 EASTEHU	PART OF LAC 9	S PURBACH AR :	LAC 59 H. VAPORUM,	HAGINAR & FTC	ON AZMO	83.4 SCARP.G
L 4 2 101 CAM+HAD+ LAC 77 PIOL	15-195 3-83E = 14-455 3-38E MALUS: 1 W>1/2 P	5w1ng= 336. Swing= 1 lac 4	5-18-67 LUNAR PHASE = 69. I APENNINES, I	ORB LO.F=80MM EMIS.ANG.= 1 LAC 43 MACROE	BLW - NONE L. CAM.RAD.= BIUS.PROCLUS	2720K 34000000 4459+2 KM+ 6 LAC	150 .5 SUN AZM= 126 CEAV	5 21 83.4 VIUS.HAGI
+ 4 1 12	12.964 1.635	19 ••• •••• Q54527 S#ING= 53. PORUM.HYGINUS	E-10-12					
	7.1							

PHASE TO EHIS ANG . 10.

The state of the s

- L 4 1 148 14+265 2.36W 24 \*\*\* \*\*\* 171651 5=18-67 LUNAR ORB H1. 610MM 86W -- NONE 2719K 4457377 77 .5 21 -.43

  CAM-MAD-\* 14-455 3-17W 5WING= 262\* PHASE= 70. EMIS-ANG.= 1. CAM-RAD-\* 4458-2 KM\* SUN AZM\* 83\*8

  CENTRAL PART OF LAC 77 PTOLMAEUS, KLEIN ; CENTRAL PART OF LAC 95 PURBACH, AR 6 5, % PART OF LAC 59 M. VAPORUM, MY
- LAC // PIULMALUS, I W>1/2 HOON SPHERE; LAC 126 CLAVIUS.M; LAC 25 CASSINI.ALPS HTS & LAC 61 TARUNTIUS.LYE
- L 4 1 113 14-645 9-51W 21 \*\*\* \*\*\* 0519U0 5-19-67 LUNAR ORB H1. 610MH 86% NONE 2718K 4455738 173 \*2 20 -.47

  LAM-NAD-= 14-455 9-81W SWING= 310\* PHASE= 78\* EMIS-ANG.= 1\* CAM-RAD\*= 4457\*2 KM\* SUN AZH# 83\*9

  LAC 77 PIOLHALUS. : LAC 76 RIPHAEUS M ; LAC 95 PURBACH.AR ; LAC 94 PITATUS.M.NUBIUM & LAC 58 COPERNICUS.RE
- L 4 2 113 14.635 9.51W 2% \*\*\* \*\*\* 051900 5-19-67 LUNAR ORB LO.F#80HH B&# " NONE 2718K 33975000 173 •2 20 -.\*\*

  CAM.NAD.\*\* 14.455 9.81W SWING= 309. PHASE# 70. EMIS.ANG.\*\* I. CAM.RAD.\*\* 4457.2 KM. SUN AZM™ 83.9

  LAC // PTOLMALUS. 1 W>1/2 HOON SPHERE ; LAC 137 NEWTON.MO ; LAC 25 CASSINI.ALPS HTS & LAC 42 M.SERENITY.DA
- L 4 I 114 I3-46N IU-97W 23 \*\*\* \*\*\* 054938 5-19-67 LUNAR ORB HI 600MM 86K NONE Z6R7K 4404918 Z6I 1-8 19 -. 4

  CAM-NAU-= 13-69N 8-69W 5WING= 77- PHASE= 66- EMIS-ANG-= 5- CAM-RAD-= 4426-2 KM- SUN AZM= 94-2

  LAC 58 CUPERNICUS, REINHOLD : LAC 59 M-VAPORUM-HYGINUS : LAC 41 APENNINES-HAENUS & LAC 40 TIMOCHARIS-L
- L 4 2 134 40.31N 18.14W 24 +=\* \*\*\* \*\*\* 182759 5-20-67 LUNAR ORB to.F=80MM B6W NONE 2879K 35987500 53 3.7 21 -.39

  CAM-MAD-= 42.8UN 25.31W SWING= 218. PHASE= 74. EHIS.ANG.= 10. CAM-RAD-= 4618.2 KM. SUN AZM=113.2

  LAC 24 51NUS 1HID : W>1/2 MOON 5PHERE; LAC 75 LETRONME.F ! LAC 1 N.POLE NEARSIDE BYRD.PFARY >80 N & LAC 14 EMDY\*\*ION.5TRA
- L 4 2 138 13-71N 36-45W Z5 000 0057Z4 5-21-67 LUNAR ORB LO-F-BOMM BBN NONE 2671K 33387500 263 103 18 --61
  CAM-NAD---13-9ZN 34-43W SWING--78- PHASE--68- EMIS-ANG---3- CAM-RAD---4410-2 KM- SUN AZM--94-0
  LAC 57 KEPLER-ENC | W>1/2 MOON SPHEME : LAC 110 SCHICKARD : LAC 11 J-HERSCHEL-JURAS-BOUGHER 6 LAC 26 EUDOXUS-BURG
- L 5 1 Y8 5+015 4+02E 46 0+4 0+4 0+6 061012 8+14+67 LUNAR ORB HI+ 610MM B6# -- NONE 101K 169574 263 5+2 18 +204 Lam-Mag-= 4-975 4+32E Swing= 169+ Phase= 67+ Emis+ang== 5+ Cam-Rad+= 1840+2 km+ 50m azm= 86+9 N+ E+ Part of Lac 77 Ptolmaeus-Klein
- L 5 2 98 5-005 9-01E 48 --- --- 061012 B-14-67 LUNAR ORB LO-F-ROMM 86W --- NONE 100K 1250000 264 5-3 18 --- 06 Lam-had--- 4-975 4-32E 5wing= 170+ Phase= 66+ Ehis-ang-- 6+ Cam-rad+-- 1839-2 km+ Sun azm= 86-9 N- E- Part of Lac 77 Ptolmaeus-kle in

									F.A.	~t <>>6
#	MAG FR.PHUTU PR I RULL OR LAT. M MAIN M I 99 4.735	LONG.	(Imesignated)		SENSOR Type	AND FI	LTER TUCE Hensmi	PRIN. A	ILT SU Z ANG. AN FR. VERT	G. FWD. LAF
	1 99 4-735 CAM-NAD-= 4-715									
	2 99 4.725 CAM.NAD.# 4.765	N. E. PART	OF LAC 77 PTU	LMAEUS, KLEIN	C	O. CAM.RAE	1839-2	KM. SI	IN AZH= B7	0
	\$ \$00 4-465 CAH-HAD=# 4-455	N. E. PART	OF LAC 77 PTU	LHAEUS KLEIN		CARTHAL	J+= 1839•2	KM• SU	IN AZH= 87	.0
		N. E. PARI	OF LAC 77 PTU	LMAEUSIKLEIN	C.II. STANGET	P+ CAMARAE	1839•2	CH• SU	N AZH= 874	0
		N. E. PART	OF LAC 77 PTU	LMAEUS . KLEIN		CHURKAN	1839.2	cM• Sü	N AZM= 87.	1
		N. E. PART	OF LAC 77 PTUI	LMAEUSIKLEIN		<b></b> Сипандо	•= 1839•2 K	:M• 5U	N AZM= 87.	i
	i ius u.u55 Cam.nad.= .u55 Squihenn pari									
	CAN-NAD.= +855 SOUTHERN PART	0+52W UF LAC 59	5wing= 176. - 5wing= 176. - H+Vapohuh,Hygiki	8-14-67 EUNAR PHASE= 61- JS	ORB LO.F=HOMM EMIS.ANG.= 11 & NORTHE	R6W CAMERAD RN PART OF LAC	NONE 97K j •• ]#36•2 K	2125n0 27	N AZM= 88.	5
	4 109 0+23H CAM+NAD+= +21N SOLTHERN PART	0.50% UF LAC 59	••* •••• 154451 Swing= 177. M•vaporuh,htgine	8-14-67 LUNAR PHASE= 11+ PS	ORB LO.F BOMM EMIS.ANG. 11 6 NORTHE	86W - • CAM•RAD RN PART OF LAC	NONE 97K ! •= 1836•2 K 77 PTOLHAEUS	2125n0 27. M* 501	4 AZM= 88.	6
	Z 310 G-SUN CAH-NAD.= -47N SOUTHERN PART	UF LAC 59	H.AMBOKAH*HACIMA	ıs	& NORTHE	PN PART OF LAC	**	M. 5UI	AZH= 88.	7
	4 III U+77N Cah+had+= +73N Southern Part	1+04W 51 4 D+46H OF LAC 59	OPER ************************************	8=14=67 LUNAR PHASE= 61.	ORB LO.F=BOMM EMIS•ANG•= 11 & NORTHE	BG# " TAMORADORN PART OF LAC	NONE 97K 1 •= 1836•2 K	212500 274 M+ SUM		
L 5	LAH+HAU+= +015	1+11W 52 * 2+27H	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8-14-67 LUNAR					19+8 19 1 AZMm 80+	+ • •

#	MAG FR.PHUTU P N KOLL OR LAT M MAIN M	FONG.	I *ESTIMATED)		TYPE	AND FILTER	TUDE PRIN.	AZ ANG. ANG. FR.	F#D+ LAP
	2 112 0.135 Cam.Had.= .ud Nonthern Pa					A LEST AA	E 98K 1225000 1837+2 KM+ M+VAPORUM+HYG1N	96 19+6 19 SUN AZM# 88+4 US	-,++
	2 113 U-15N CAM-NAU-= -27N SOUTHERN PA	1+10W 52 + 2+25W H] UF LAC 59	SWING# 2. M.VAPORUM.HYGING	B-14-67 LUNAR Phase= 91. Js	ORB LO.F=HOMM Emis-ang.= 21 & Northe	B&W - NONE  CAMORADOS  RN PART OF LAC 77	E 98K 1225000 1437•2 km• Ptolmaeus.Klein	95 19+6 19 SUN AZH# 88+5	
	CAN-HAD-= .54N CAN-HAD-= .54N SOUTHERN PAI	1.48% 52 • 2.22% RT UF LAC 59	H=AVBOKNM*HAGINE 2MING** 1* c* *** 18222	8=14=67 EUNAR PHASE= 91. JS	ORB LO.F#80MM EMIS+ANG.# 21 & NORTHE	B&W + NONI + CAM+RAD+= RN PART OF LAC 77	97k 1212500 1836+2 km. PTOLMAEUS.KLF1N	95   19+6   19 SUN AZMe 88+6	
լ 5	2 115 u+73N CAM+NAD4= .82N	1-06# 52 •	** **** 185603	8-14-67 LUNAR	URB LO.F. #80HH	B&W - NONE • CAM•RAD•= RN PART OF LAC 77	97x 12125mg	94 19.6 20	A7
į 5	1 116 14.JYS Cam.nad.= 14.155	4.15W 53 • 5.14W	e	8-14-67 LUNAR					
L 5	2 116 14.385 CAM.HAD.# 14.155	4+16W 53 + 5+14W 5+ n+ PART (	•° •••• 220243 Swing= 10• UF Lac 77 Ptul	8-14-67 LUNAR PHASE: 88. MAEUS:KLEIN	ORB LO.F.ROHM EMIS.ANG.* 15	RG6 - NONE • CAM•RAD•=	115K 1437560 1854+2 KM+	104 14+4 17 SUN AZM# 84+0	
L 5	1 117 14.06S CAM.NAD.= 13.85S	4+13W 53 +0 5+11W 5+ #+ PART (	• •••• 220249 Swing= 9• DF Lac 77 Ptul	B-14-67 LUNAR PHASE= 88. HAEUS:KLEIN	ORB HI. 610HM EMIS+ANG.= IS	BSW - NONE CAM-RAD-4	115K 188575 1854+2 KH+	102 14.5 17 SUN 42M= 84.0	-, 7
ι 5	2 117 14:05S CAM.NAD.# 13:84S	4+145 53 +4 5+117 5+ #+ PART (	• • • • • 220249 Swing= 9. UF EAC 77 PTUL	8+14-67 LUNAR PHASE= 88. MAEUS.KLEIN	URB LD.F=80MM EMIS.ANG.= 15	B&# " NONE CAMerade#</td><td>115K  437500 1854.2 KM.</td><td>102 14+3 17 SUN AZM# 84.G</td><td>BA</td></tr><tr><td>ر 5</td><td>E 118 13-745 Cam-Mado* 13-545</td><td>4+11W 53 +4 5+09W 5= n= PART (</td><td>* **** 220254 Swing* 8* Uf Lac 77 PTUL</td><td>8-14-67 LUNAR PHASE= 88. MAEUS.KLEIN</td><td>URB HI. 610HM ( EMIS.ANG.= 15</td><td>36₩ ~ NONE • CAM•RAD•=</td><td>114K 186885 1853•2 KM4</td><td>101   14.4   17 5UN AZM# 84.1</td><td>-, 7</td></tr><tr><td>ι 5</td><td>2 118 13+735 CAM+NAD+= 13+53S</td><td></td><td>** **** 220254 Swing= 8. JF Lac 77 Ptul</td><td></td><td>ORB LO.F=80MM ( EMIS+ANG+= 15)</td><td>36₩ - NDNE CAM+RAD•=</td><td>119K 1425000 1853+2 KH+</td><td>In1 14+3 17 SUN AZM# 84+1</td><td># <b>.</b> 88</td></tr><tr><td>ι 5</td><td>i 119 13.415 Camehade= 13.245</td><td>5.06W</td><td>* **** 220259 Swing= 7* DF Lac 77 Ptoli</td><td>8-14-67 LUNAR PHA5E= 88. MAEUS:KLEIN</td><td>ORH HI. 610MM ( EMIS-ANG.= 15</td><td>ACH - NONE CAM+RAD+#</td><td>113K 185246 1852•2 KM•</td><td>100   14+4   17 SUM AZH# 84+2</td><td> 8</td></tr><tr><td>ί 5</td><td>2 119 13.415 CAH.HAD.* 13.235</td><td>4.10W 53 .4 5.06M 5. W. PART 0</td><td>9 **** 22U3UU   Swing= 7. If Lac 77 Ptoli</td><td>B=14-67 LUNAR PHASE= BA. 1AEUS+KLEIN</td><td>URB LU.F=80MM F Enis.ang.= 15,</td><td>GW ~ NONE CAM⊕RAG⊕±</td><td>113K  412500 1852#2 KM#</td><td>IOO 14+2 17 Sun azm= 84<sub>+2</sub></td><td>88</td></tr></tbody></table>			

## LAC 77 PTULHAEUS. KLEIN

710N	HAG KULL	F##PHOTO OR	PRIN	.PT.		<b>#1</b> :	M-DA-YR	CAMERA-LENS OR				PAGE	25A
IOTAL	PHOT:	HAIN # 05 IN IH		LUNG.	timesliwaie Times-ih M	SEC IDJ		SENSOR TYPE	FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. Men.HI PT. K=KH.	T I L T AZ ANG. FR. VER	ANG.	51DE: F#D: LAP S: #

CAH . RAD . # 1795 . 2 KH .

No L. PART OF LAC TR THEOPHILUS . KANT

SUN AZM# 88.5

PAGE 259

THESE THO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER HEAN: • # DEGRADED PHOTOS. \$ # ALMOST UNUSABLE PHOTOS.

THE ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

1-).(0).(1) # NO INFO # # APPROXIMATELY NEXT TO MAGH. B BBRACKET HOUNTED; G# CAM. ON GROUND

LAHERA-LENS AS FOLLOWS: SW.A. # SUPER WIDE ANGLE LENS! EKTHMEKTAR 2.R LENS!

HSB# HASSELBLAD! HAUR# HAUREK! ZP.ZB.ZS = ZEISS LENS(PLANAK.BIOGEN.SONAR): FOCAL LENGTH(HM) & MAX.F-OPENING

10. AS EXPOS SPEED # 1/1400 (OK \*\* TWO ZERUS)

FUH LUNAR DROSTER K AFIER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT O.O

M15 S100	MAG FR.PHOID PHIN.PT. OHB GET GM  KOLL UH LAI. # TIMES-HR M S  # HAIN LONG. LIBESTIMATES  #	MADAAYR CAMERA SEC SE 13 T	-LENS OR FILM-E NSOR YPE	XPOSURE AND FILTER	TUDE PRIN. M=N.MI PT.	T 1 L T SUN SINAT ANG. FR. VERT S	F#D.
	2 85 U+54N 25+07E 58 *** "** D84( CAH+HAD+= +52N 25+D7E 5#14G= 180; 5* E+ PART OF LAC 6J J+CAE5AR,SAE	PHASE= 69° E	HIS.ANG.= D.	CAM . RAD	1796+2 KH+	SUN A7M# 88.6	-,••
LJ	2 86° 0.50N 25.22E 58 *** *** 0840 CAR.HAD.* .49N 25.21E	PHASE - 69. E	MIS+ANG.= 1.	EAM RAD	1796.2 KM.	SUN AZM. BRAA	<b>-</b> , A A
t l	2 87 0-47N 25-37E 58 ++* ++* 0846 CRN+NAD+* +46N 25-36E SWING* 216- 5+ L+ PART OF LAC 60 J+CAE5AR+SAE	PHASE# 69. FI	H15+ANG.* I.	CAM + RAD + m	1796.2 rm.	SHN AZME BRAA	-,88
L 1	2 88 4.44N 25.52E 58 0846 CAM.HAD. 43N 25.51E 54ING 227, S. E. PART UF LAC 60 J.CAESAR, SAE	PHASE # 69. EI	MISAANG. I.	CAM-RAD.	179A.2 KM.	SUN AZH. BR.A	89
i I	2 49 J.41N 25.67E 58 *** *** 0840 CAM.HAD.* .4UN 25.65E SWING. 2350 5. L. PART UF LAC 60 J.CAESAR, SAE	PHASE= 69. E	MIS.ANG 1.	CAM RAD . m	1996.2 KM.	SUN AZMA RALL	<b>~</b> • ₽ ₽
ı I	2 90 J-37N 25-83E 58 *** *** 0846 CAM-NAD-* -36N 25-80E 5wing= 2416 5- L- PARI UF LAC 60 J-CAESAR-SAE	PHASEE 69. EI	HIS+ANG.m 1.	CAMORADON	1795 • 2 × M •	SUN AZHE BR.5	<b>-</b> ,48
i i	25.4N 25.4N 25.4NE 58 0844 CAN.NAD. 33N 25.4SE SWING 245. CAN.NAESAN.SAE	PHASE 69. E	MIS-ANG.m I.	CAM+RAD+#	1795 • 2 KH •	SUN AZHE AA+5	~ + A 7
L I	2 92 U-31N 26-13E 58 +++ ++++ ++++++++++++++++++++++++++	PHASE= 69. E	M15.ANG.= 1.	CAMORADOR	1795.2 KM.	SUN AZMP 88.5	88
ι 1	2 43 U+27N 26+2HE 58 +++ +++ 0846	41 8-23-66 LUMAR URI	B LO.F. NOMM BOW	- Nout	54K 100000	03 1.3 22	. 07

5. E. PART OF LAC OU J.CAESAR. SABINE. JANSEN

SHING# 251. PHASE# 69. EHIS.ANG. = 1.

3 TON	NULL OR LATE N HAIN LI	PT. URB GET GNT # TIMES-HR M SEC UNG. (I=ESTIMATEU)		SENSOR Type	AND FILTER	TUDE PRIN. H=N.MI PT. K=KM.	VERT R	HD. LAP
į I	2 94 U=24N 26= CAM=NAD== -24N 26= >= E= PART UF	43E	8-23-66 LUNAR Phase= 69. E,Jansen	URB LO.F=ROPM EMIS.ANG.= 1 & N. E	#6W T NONE  CAM-PAD- PART OF LAC 78	56K 700000 1795•2 kM• Theophilus,kant	85 1+4 22 = 5U <sup>N</sup> AZM= 80+5	.87
L I	LAM-NAD-= -21H 26	58E 58 ••• ••• 084646 5%ING= 254• Lac 60 J•Cae5ak,5abin	PHASE AS.	FHIS No 2	. CAMARAN -	1705.7		87
ιl	2 46 U+18h 26+2 CAH+NAU+= +17N 26+2	73E S8 ••• •••• 084648 •67E SWING= 256• LAC 60 J•CAESAR <sub>1</sub> SABIN	8+23-66 LUNAR Phase= 69.	ORB LO.F=80MM	ALW - NONE	56K 700000	88   1+7 22 ~ 5UN AZM# 88+4	.87
i i	CAM-NAD-= -14N 26	88E 58 ••• •••• 084651 •82E	PHASE = 49.	FMIS-ANG-W 2	. CAMADAD	1795.2 PM.	AP   1 - 8 23 - SUN AZM# 88 - 4	· <b>.</b> 87
ł. I		U3E 58 ••• •••• (184653 •97E Swing= 258• Lac 60 J•CaeSak <sub>•</sub> Sabin	FRADER 69.	EMIDANG.= 2	a CAMARADAM	1 + 0 5 a 7 KM a	90 2+0 23 = Stin Azm= 88+4	- , Я 7
i i	CADEGRADS SURG Z/I	IBE SB ••• ••• D84656 •IIE SWING= 259• LAC 60 JUCAESAN,SABIN	PHASEM A9.	FMIS.aNc. = 2	. CAM. DAD .	1900 2	9! 2:123 - Sun Azma 88:4	.87
i i	LAMeNADem .uSN 27.	33E 58 *** *** 084658 *26E Swing* 259* Lac 60 J*CaeSah,Sabin	PHASES AS.	FHIS.ANC. = 2	. fAM.DAD -	1300 A V.	91 2+3 23 - SUN A7M= 88+4	· . 8.7
	CAM-HAD+* -51N 11.	56E 65 ••• ••• 09D932 62E Swing= 92. Lac <sup>6</sup> u J•caesar,sabin:	PHASE= 68. E.JANSEN	EMIS ANG . 2 & N. W.	• CAM+RAD+# • PART UF LAC 78	1794+2 KM+ Theophilus,kant	SUN AZH= 88+6	
į į	CAH-HAD39N 12.	13E 6 <sup>5</sup> ••• •••• 0909 <sup>4</sup> 1 •17E Swing= 92• Lac 60 J•caeSak,Sabin	PHASE MAR.	FH15.4Nc. # 1.	. CAN.DID -	1202 2		,53
L A	CAMPNADOR -28N 12.	70E 65 ••• •••• U9U95D •72E Swing# 95. Lac 6U J•CaeSah,Sabin	PHASE AR.	EMIS.ANG 1.	. CAMADAO	1707-7 PM.	287 •7 21	•52
ŧΙ	CAMaliadow	26E AS ••• •••• D9D9:9 •27E Swing= lid. Lac 6D J•caeSar,saein.	PHASE AR.	FHIS ANG .= O.	· CAMADAD	1797.2 ×4.	302 °2 21 -: SUN AZM= 88.4	,52
ŧί	CHU-MAD-M -04M 134	BZF &\$ ••• ••• D91UDB •81E SWING= 26U• LAC &U J•CAESAH.SAHIN:	PHASE # 68+	EMIS*ANG*# 0	• CAM+RAD•≡	1792*2 KM*	92 +4 22 = 6 5UN AZH# 88+4	.52

7 8	<b>.</b>	L	AC 78 THEOPHILO:	3   KAOI								
\$10H	HOLL H HA		TIMES-HR M SEC		TYPE	-	ND FILTER	K=KH• H=N•H[	RIN. A	7 ANG. FR. VER	ANG.	FWD. LAP B. T
L J	CAM-NAD-	U+UBS 14.38E 65 = *JBS 14*35E * N. PART UF LAC 78	># HG= 206+	CHASE 00.	OR8 LO.F.BOMM EMIS.ANG. 1 6 S. A						9 23 88.3	-,52
į, j	2 111	U•2∪S 14•94E 65 ■ •195 14•89E • H• PART UF LAC 78	··· ··· 091026	8-24-66 LUNAH	ORB LU.F=BOMM EMIS+ANG.= 1 E 5. #						5 23 88.3	57
u I	2 112	U+325 15+48E 65 = 4315 15+42E  - H. PART UF LAC 7E	*** *** 091035	8-24-66 LUNAR	CRE LO.F BOMM  EMIS ANG. = 4  6 S. F	R&N 2. (A. ) N. PART (	- NONE CAM•RAD•= OF LAC AG	52K ( 1791+2 KI J+CAE5AR+	650000 1 4•	IND 2+ IUN AZHI JANSEN	0 24 88+2	-,53
ί 2	2 dB	-74N 23-17E 67 71N 24-12E - L. PART UF LAC 64	*** *** 193800	11-20-66 LUNAR	ORB LO.F. BOHH	B&#</td><td>- NONE</td><td>52K -</td><td>650000 M• S</td><td>93  • 5UN A7M=</td><td>7 30 90•8</td><td>87</td></tr><tr><td>۲ 2</td><td>2 89</td><td>U-68N 24-31E 67 = .68N 24-26E - L+ PART UF LAC 60</td><td>*** **** 193802</td><td>2 11-20-66 LUNAS</td><td>ORB LO.F = BOMM</td><td>86₩</td><td>- NONE</td><td>52k</td><td>650NNU M• 5</td><td>94 1 .</td><td>8 30 70•8</td><td>87</td></tr><tr><td>ί 2</td><td>2 90</td><td>U+65N 24+45E 67 = .65N 24+39E >- E. PART UF LAC 60</td><td>*** **** 193805</td><td>5 11-20-66 LUNAI</td><td>088 LO*F#80MA</td><td>86W 2.</td><td>- NONE</td><td>52K 1791+2 K</td><td>650000 M• !</td><td>95 1. Sun Azhe</td><td>9 31 90+8</td><td>-•87</td></tr><tr><td>ι Z</td><td>2 91</td><td>u+62N 24+59E 67 == +62N 24+53E 5- L. PART UF LAC 60</td><td> 193807</td><td>11-20-66 LUNA</td><td>R ORB LO. F=BOHN</td><td>R&W</td><td>- NONE</td><td>53K 1792•2 K</td><td>662500 M.</td><td>95 2+ SUN A7H=</td><td>1 31 2 90+7</td><td>87</td></tr><tr><td>ιз</td><td>2 58</td><td>u-j6N 25-92E 52 .# -56N 25-16E 5. E- PART OF LAC 6</td><td>000 0000 135051</td><td>1 2-16-67 LUNA</td><td>R DRB LO+F=80MM</td><td>96W</td><td>- NONE</td><td>51K 1790•2 K</td><td>₼37500 H•</td><td>198 144 SUN AZM</td><td>•0 18 = 91•6</td><td>87</td></tr><tr><td>ι a</td><td>2 6U</td><td>U-51N 24-22E 53</td><td>5 *** *** 17193: 54146# 178*</td><td>8 2-16-67 LÜNA PHASE 74</td><td></td><td>86# 1•</td><td>- NONE</td><td>50K 1789+2 K</td><td>625000 H•</td><td>19 11- SUN A7H</td><td>•1 19 • 91•8</td><td>-,••</td></tr><tr><td><b>( 3</b></td><td>2 63</td><td>0-36N 24-6HE 53 •= •J6N 24-4BE 5- E- PART UF LAC 6</td><td>3 *** *** 17194</td><td>5 2-16-67 LUNA</td><td>ENTELLNE B</td><td>1 -</td><td>CAMERADER</td><td>50K 1789+2 k Theophill</td><td>(H+</td><td>SUN AZH</td><td>•0 20 = 91•7</td><td>⊷,BR</td></tr><tr><td>ι 3</td><td>2 66</td><td>U+21N 25+00E 53 += +595 24+87E 5+ E+ PART OF LAC 6</td><td>3 *** **** 17195</td><td>1 2-16-67 LUNA</td><td>R ORB LO.F=BOMM</td><td>1 86W</td><td>- NONE</td><td>50K 1789+2 P</td><td>625000 (M•</td><td>23 11 SUN A7M</td><td>•1 20 • 91•7</td><td>-,88</td></tr><tr><td>L 3</td><td></td><td></td><td>4 *** **** 20475</td><td>1 2-16-67 LUNA</td><td>R ORB LU.F=80MM</td><td>1 864</td><td></td><td>50K 1789+2 I</td><td>625000</td><td>284 7 500 AZM</td><td>•2 18 # 91•7</td><td>-,••</td></tr></tbody></table>						

CAM-NAD-# -49H 21-DHE SWING# 3- PHASE# 69- EMIS-ANG-# 7- CAM-RAD-# 1789-2 KM- SUN AZM# 91-7

SOUTHERN PART OF LAC 60 J.CAESAR, SABINE JANSEN & NORTHERN PART OF LAC 78 THEOPHILUS, KANT

CAH. NAD. = 1.905 13.816 Sains 196. PHASE 70. ENIS. ANG. = 5.

No Me PART OF LAC 78 THEOPHILUS . KANT

CAM. RAD. = 1786.2 KM. SUN AZME 90.8

		KIN.PT. URB GE • # TIME LONG. (*=E	שבר יי את־נ	R CAMERA-LENS OR Sensur Type	FILM-EXPOSURE AND FILTER	AUT: "ALE AT TI TUDE PRIN. AZ M=N.M! PT. K=KH.	ANG. ANG. FRI
ί3	I 70 U+IUS Cam-Had-= +iin Nukiheri Pa	22.00 <sup>E</sup> 54 ••• • 22.05E 5WII RT OF LAC 78 THEOR	• • • 204808 2-16-6 NG= 354 • PHAS PHILUS <sub>ika</sub> ni	67 LUNAR ORB HI: 610H SE= 70: EMIS:ANG.= 6 SOUT:	1 B&W - NONE B. CAM-RAD-# HERN PART OF LAC AO	49K 80328 195	5 7+3 19 -,1
٤ 3		22.00E 54 541 22.06E 541 RT OF LAC 78 THEOL	YU= J⊃>• PHA:	67 LUNAR ORB LO•F#80H SE= 69• EMI5•ANG==	1 0 f. w	49K 612500 [95	5 7+3 19 -+5 4 4ZH= 91+5
ί3	1 /2 J-835 CAM-NAD-# 1.465		••• 001749 2-17-6 NG= 181• PHAS LAC 78 THEUPHILUS	67 LUNAR ORB HJ. 610HN SE= 76. EMIS.ANG.= 2 S.KANT	1 B&W - NONE ?3+ CAM+RAD++	50K 81947 21 1789+2 KM+ SUN	77+2 23 7 AZH= 91+3
				57 LUNAR ORB LO.F=80M SE= 78. EMIS.ANG.= 7 S. W. PART OF LAC 7			
ι	1 79* 1+81S CAM+RAD+# 2+86S	17.455 59 000 0	** 141215 2-17-6	57 LUNAR URB HI. 610HF			
ز غ	4444444	17.66E 59 17.59E Swit Nurthern Part Of	10 II/ PHAS	57 LUNAR URB LOSF=80HP 5E= 69° EHIS=ANG== 5skant	B. CAMERAD.	48K 600000 19 1787+2 km+ SUN	7+4 23 -+• FAZM= 90+8
<b>. 3</b>	1 80 1-435 LAM-NAD-= 1-545	15,0,0 ~1110	210904 2-17-6 16= 185. Phas Lac 78 Theophilus	57 LUNAR ORB <sup>HI</sup> . 610HH 5E= 7D. EMIS.ANG.= 5.KANT	I B&W = NONE 4. CAM∗RAD±±	47K 77n49 75 1786•2 kM• SUN	4+4 22 AzM# 91+0
ι ჰ	2 80 1-435 CAM+NAD+= 1-545	14 10 Yr		57 LUNAR ORB LO-F-BOHM DE= 70. EMIS-ANG.= G-KANT	H&W - NONE 4. CAM-RAD-=	47K 587500 74 1786•2 km• sun	4.4 22 A7M= 91.0
<b>L</b> 3	1 81 1-615 CAN-HAD-* 1-725	「つ・フェビ つみ 1 む	•• 210912 2-17-6 G= 191• PHAS LAC 78 THEOPHILUS	7 LUNAR ORB HI. 610HH E= 70. EHI5.ANG.= i,KANT	FOR - NONE 5. CAM-RAD-=	47K 77A49 32 1786+2 KH+ SUN	4+4 23• A7M= 90+9
ιj	2 81 1+615 CAM+NAD+# 1+725	13.356 2418	•• 210912 2-17-6 G= 190• PHAS LAC 78 THEOPHILUS	o7 LUNAR ORB LO∍F⊞BOHH SE™ 70° EMIS∘ANG±™ S•KANT		47K 5875AO 30 1786+2 KM+ SUN	4+5 23 =+1 AZH= 90+9
د ع	1 82 1.8uS CAM.NAD. 1.89S	13.80E Shin	** 210920 2-17-6 G= 197* РНДS LAC 78 THEUPHILUS	7 EUNAR ORB HI. 610HM E* 70. EHIS.ANG.*	R&# ~ NONE S. CAM+RAD.#</td><td>47K 77A49 3B 1786+2 KH+ SUN</td><td>4+6 Z3* AZM= 90+8</td></tr><tr><td>ι 3</td><td>2 82 1.885 CAH.NAD.= 1.985</td><td>13.8RE 61 *** **</td><td>** 210920 2-17-6 G= 196. PHAS</td><td>.7 LUNAR ORB LD.F≡80MH F= 70. ENTS.ANG.≡</td><td>B&A - NUNE S. CAM-RAD</td><td>47k 5875nn 36</td><td></td></tr></tbody></table>		

	78		ŧ	LAC 76 THEOPHILL	JS . KANT					PAGE 263
210	א אנ	ե սк լյ	\ I • #	GET GHT TIMES-HR M SEC (f=ESTIMATED)		SENSUR	FILM-EXPOSURE AND FILTE	ALTI SCALE AT R TUDE PRIN, Mannell PT, Kekma	AZ ANG FR	i A <sup>N</sup> G ≀ FWD • • LAP
ι :	CAR	83 1+985 -4AD= 2+08	55 14.59E	*** **** 210928 Swings 203* Lof Lac 78 Th	PHASE# 76	AR ORB HI. & LOM D. EMIS.ANG.#	H 86W - NO 5. CAM-RAD.s	NE 47K 77049 1786•2 km:	43 4 5UN AZH	•7 24 ~•• = 90•7
ι 3	CAH	43 1.989 •NAD+* 2.08	95 14.27E	*** **** 210928 5wing= 202* For Lac 78 th	PHASE= 70	). EHIS.ANG.=	M B&W = NO! 5. CAM+RAD+#	vE 47K 5875n0 1786∗2 KM•	42 4 SIIN AZM	+7 24 -+52 = 90+7
	CAM	*NAD ** 42 * 2 *	25 33•74E	5₩[NG= 3Q1•	PHASE= 80	D. EMIS.ANG.*	M B6W - NOI 15. CAM-RAD.# MBO.NE.M.NECTAR	4711.2 KM.	5.11% a 780	- 64-7
L 4	LAN	76+ 42.775	5 37.87E 15	*** *** 043514 5*1NG* 296*	5-16-67 LUNA PHASE 75	AR ORB LC.F=80M	M B&# - Noi 12: CAM+RAD++ HO.STOFLER</td><td>VE 2972k 371500nG</td><td>97 4.</td><td>.5 22</td></tr><tr><td>լ 4</td><td>I I</td><td>77 14.935</td><td>30.15E 15</td><td>*** **** 050718</td><td>5-16-67 EUNA PHASE= 48</td><td>R ORB HI, 610H</td><td>H R&W - NOP 1. CAM-RAD.= ASTORIUS.S.NECTAR</td><td>E 2730K 4475410</td><td>141</td><td>.4 23 -,49</td></tr><tr><td></td><td>LAIS</td><td>***** 14***</td><td>5 29•77£</td><td>>*ING= 327.</td><td>PHASE & AP</td><td>ENISALNO.E</td><td>M B&W = NOI   L</td><td>8.040.7</td><td>C 1111 . 711.</td><td>- 03 0</td></tr></tbody></table>			

- t 4 | 78 | 13.30h | 36.21E | 15 \*\*\* \*\*\* 053813 | 5-16-67 | LUNAR DR8 | 41, 610MM | 86W - NONE 2722K 4462295 248 1+0 24 -,40 CAM+NAU+# 13.86N 31.68E 5w106= 63. PHASE 64. EMIS-ANG. 3. CAM . RAD . # 4461.2 KM. SUN AZM= 95.4 LAC 61 TARUNTIUS, LYELL I LAC 60 J.CAESAR, SABINE . JANSEN I LAC 43 MACROBIUS, PROCLUS & LAC 42 M+5ERENITY+D
- L 9 2 79\* 41.83N 39.05E IS \*\*\* \*\*\* 061131 5-16-67 LUNAR ORB LO.F. 30HM BEW NONE 2964K 37050000 ID3 2-1 25 -.90 CAM-HAD = +2.79N 34.33E PHASE= 71. EMIS.ANG.= 6. Shing= 268. CAM+RAD+# 4703+2 KM+ SUN A7M=113+3 LAC 27 SEMINUS, ATLAS 1 MON SPHERE 1 LAC I NOPOLE NEARSIDE BY 1 LAC 13 ARISTOTE ... MOFRIG & LAC 78 THEOPHILUS
- #3 42.945 J2.d2E 16 ... \*\*\* 163652 5-16-67 LUNAR ORB LO.F#80MM B&W NONE 2972K 37150000 98 5.1 23 -. . . CAM+HAD+= 42+235 20+71E 5a[NG= 297. PHASE = 80. EHIS.ANG. = 14. CAM+RSD+= 4711+2 KM+ SIIN AZM= 66+3 LAC 113 HAURULYCUS.RAB.LEVI I WEST/2 HOON SPHERE ! LAC 78 THEOPHILUS ! LAC 116 M.AUSTRA ! LAC 140 SCHR & LAC 60 J.CAE
- 84 15-195 24-28E 16 \*\*\* \*\*\*\* 170857 5-16-67 LUNAR ORB HI. 610MM BOW NONE 2727K 9470492 124 +8 23 +,47 CAM-HAD-= 14-455 23-18E SpinG= 310. PHASE= 68. EMIS-ANG.= 2. CAM . RAD . = 4466 . 2 KM . SUN A7M = 87 . R EASTERN PART OF LAC 78 THEOPHILUS : EASTERN PART OF LAC 96 ALTAI SCAR : LAC 60 J.CAESAR, SARTHE, JA 6. LAC 97 FRACASTORIUS,
- 84+ 15-185 24-28E 16 \*\*\* \*\*\* 170857 5-16-67 LUNAR CRB LO.F.\*80MM RAW NONE 2727K 340875nn 124 +8 23 +.\*\* CAM-NAD-= 14.455 23.18E SalbG= 310. PHASE AR EMIS.ANG. 2. CAH+RAD+# 4466+2 KM+ SUN AZME @2.R LAC 78 THEOPHILUS : WOLVE HOON SPHERE : LAC 41 A'ENNINES, : LAC 13 ARISTOTE. M. FRIG & LAC 113 MAUROLYCUS, R
- 85 12-49N 23-94E 16 \*\*\* \*\*\*\* 173950 5-16-67 LUNAR ORB HI. 610MH P&W - NONE 2717K 4454098 230 .9 24 -,31 CAM-NAU-# 13-88N 25-04E SWING# 44. Prase# 65. EMIS-ANG.# 2. CAM-FAD-# 4456-2 KM. SUN A7M# 95-2 EASTERN PART OF LAC 60 J.CAESAR. SABINE. JANSEN I EASTERN PART OF LAC 42 M. SERENITY. DANES I LAC 78 THEOPHILUS & LAC 43 MA

- FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. MIS HAG PHIPHUTU PRINIPT ORB GET GMT M-DA-YR CAMERA-LENS OR PRIN. AT ANG, ANG. FAD. SENSOR AND FILTER TUDE SION ROLL UR LATA TIMES-HR M SEC TYPE M=NaMj PT. FR. LAF ( = LSTIMATED) MAIN LUNG. VERT 8. 8 K = K M .
- L 4 2 85% 13-UJN 23-94E 16 \*\*\* \*\*\* \*\*\* 173950 5-16-67 LUNAR URB LO-F#80MM BOW NONE 2717K 33962500 230 \*9 24 --27

  CAM-NAU-# 13-89N 25-04E SHING# 44. PHASE# 65. FMIS-ANG# 2. CAM-RAD-# 4456-2 KM. SUN A7M# 95-2

  ULGHADED NEGATIVE : LAC 60 J.CAESAR, SABINE, JANSEN : LAC 78 THEOPHILUS, KANT & LAC 79 COLOHBO, NE.M

- L 4 2 95 42-535 18-70E 18 \*\*\* \*\*\* 164034 5\*17\*67 LUNAR ORB LO-F-BOMM BGW NONE 2975K 37187500 95 4+7 22 \*\*\*\*

  CAN-HAD-\* 42-275 7-64E SMING\* 294+ PHASE\* BO- EMIS-ANG-\* 13+ CAM-RAD-\*\* 4714-2 KM+ SUN AZM\* 67+9

  LAC 113 MAUNOLYCUS-RAB-LEVI : W>1/2 MOON SPHERE : LAC 140 SCHRODING : LAC 129 M-AUSTRA : LAC 78 THEOP & LAC 112 TYCH

- L 4 1 47 12.97N 9.66E 18 4.00 40.00 174328 5-17-67 LUNAR ORB HI. 610HH B&W -- NONE 2705K 4434426 245 1.4 22 --.17

  CAM.NAD.\* 13.90N 11.76E 5WING= 60. PHASE= 65. EMIS.ANG.\* 4. CAM.RAD.\* 4444.2 KM. SUN AZM. 94.7

  LAC 59 M.VAPUHUM.HYGIHUS : LAC 60 J.CAESAR.SABINE.JANSEN 1 LAC 42 M.SERENITY.DAWES & LAC 41 APENNINES.HA
- L 4 2 115 42-28N 2-67# 21 \*\*\* \*\*\* 062212 5-19-67 LUNAR ORB LO.F#8DMM B&W NONE 2905K 36312500 IDT 1-4 21 --21

  CAM-HAD-= 42-76N 5-70W SWING= 266. PHASE= 73. EHIS-ARG.= 9. CAM-RAD-= 4644-2 KM- SUN AZM=109-5

  LAC 25 CASSINI.AL : W>1/2 HOON 5PHERE : LAC 76 RIPHALUS M : LAC 1 N.POLE NEARSIDE BYRD-FEARY >80 N & LAC 16

, 2100	MAG FR.PHUTO PRIN.PT. ORB ROLL OR LAT. # # MAIN LONG.	(I=ESTIMATED)	TIPE		MmN·MI PT. K#KM·	VERT	8 . 8
	2 64* u*73H 25*U5E 34 (AM*NAD** *78N 29*30E	J.CAESAN, SABINE, JANSEN		NORTHERN HART OF LAC OR	THEOPHIEDS + KANT		
	2 710 0.40N 23081E 37 CAMONADOR - 41N 2402E 5-1- PART UF LAC 68	*** **** 191002 8-12-6 Swing= 174* PHAS J.CAESAR, SABINE, JANSEN	7 LUNAR ORB LO.F E== 66. EM[5.AN I &	#ROMM ROW "NON Gom 4. CAM-RAD-# No E. PART OF LAC 78	E 98K 1225000 1837+Z KM+ THEOPHILUS:KANT		
	2 32 U-67N 23-84E 37 CAM-NAD-= -66N 24-04E	*** **** 191007 8-12-6 SWINGE 178* PHAS J*CAESAR*SABINE*JANSER	57 LUNAR ORB LOSF SE# 66. EHIS:AN ! &	#80MM R6% - NON G+= 4. CAM•R3D•= N• E• PART OF LAC 7A	E 98K 1225000 IB37+2 KH+ THEOPHILUS+KANT		
	2 73* 0.94N 23.86E 37 CAM-NAD** .91N 25.06E	*** **** 191011 8-12- Swing= 183. PHA' 1 .t.CAESAR, SABINE, JANSE	57 LUNAR ORB LO•F 5E= 66• EHIS•Ah v &	#ROMM B&K = NON G.# 4. CAH+RAD+# N. E. PART OF LAC 7F	E 98K 1225ANU 1837•2 KM• 1 THEOPHILUS•KANT	277 3+5 SUN AZM=	
	2 75 0.40N 23.85E 38 CAM.NAU.# .55N 22.28E 5. c. PART OF LAC 6:	J.CAESAH,SABINE JANSE	N 6	N. E. PART OF LAC 7	THEOPHILUS . KANT		
	2 76 C-69N 23-87E 38 CAM-WAD-= -82H 22-30E 5. L. PART OF LAC 6	J.CAESAR, SABINE, JANSE	N	N. E. PART OF LAC 71	HEOPHILUS . KANT		
	2 77 U.59N 23.9DE 38 CAM.NAD.= 1.1UN 22.33E 5. E. PARI OF LAC 6	ALINGE SHIRE SENALESHIBACENACSADEL O	M e	N. E. PART OF LAC 7	R THEOPHILUS . KANT		
	2 78* 1.30N 23.92E 38 CAM.NAD.= 1.39N 22.35E S. F. PART OF LAC 6	*** *** 222124 8-12- SWING= 359 PHA U J.CAESAR, SABINE, JANSE	67 LUNAR OK. CO. Se= 95. EMIS.A N &	F=BOMM B&W = NO NG•= 27: CAM•RAD•= N• E. PART OF LAC 7	NE 98K 1225000 1837+2 KH+ B THEOPHILUS•KANT	93 75+1 SUN AZM	
	1 84 14.955 13.91E 42 CAMONADO = 14.825 14.02E 5. #. PAR	561NG= 126+ PHA FOR LAC 78 THEOPHILL	67 LUNAR DRB HI. SE± 71. EMIS+4 IS.KANT	619MM BEW " NO NG.= 3. CAM-RAD.=	NE 115K 188525 1854+2 KM+	220 2. SUN AZM=	
լ 5	2 84 14.745 13.70E 42 CAM.NAD.= 14.825 14.02E S. n. PART UF LAC	347MP= 13A = Lui	-67 LUNAR ORB LO. ISE= 71. EMIS.A G	F=8DMM 866 - NO NG.= 3. CAM-RAD.= N. B. PART OF LAC 9	NE 115K 1437500 1854+2 KM+ 4 ALTAI SCARP,GFB	I 223 2. SUN A7Mm ER	93•7

MIS MAG FREPHULO PRINEPT ORB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LA . TIMES-HK M SEC SENSOR AND FILTER TULE PRIN. AZ ANG. ANG. FWD. HAIN LUNG. ( I = ESTIMATED) TYPE M=N+M1 PT. F 22 LAP KnKM. VERT 8. 8

- L I Z 31 Z-54N 47-96E 39 00° 00° 134659 8"ZD+66 LUNAR DRB LU<sub>o</sub>f=80M<sup>H</sup> B6W NONE 243K 30375'0 Z34 | 11-0 t0 "\*\* Cam-Nado= 3-44N 49-24E Swing= 53» Phase= 70» Emis-Ang== 13。 '\' 'M-Rado== 1982-Z km» SUM AZM= 88-9 SUUIHERN PART OF LAC 61 TARUNTIUS-LYELL I NORTHERN PART OF LAC 79 COLOMBO=NE & LAC 62 M-UNDARUM-5-CRISIUM
- L 1 2 32° 2.15N 49.95E 39 +0° 0.0° 134733 8°20°66 LUNAR ORB LO.F=60NN BGW NONE 23BK 2975000 227 9.9 12 -,65 LAM-NAD-= 3.18N 50.96E 541NG= 46. PHASE= 70. EMIS.ANG.= 11. CAM-RAD-= 1977.2 KM. SUN AZM# 88.5 5. E. PARI UF LAC 61 TARUNTIUS.LYELL : LAC 62 M.UNDARUM.5.CRISIUM & LAC 79 COLOMBO.NE
- L 1 2 42° 4°35N 31°87E 43 4°4° 4°4° 041448 8°21°66 LUNAR ORB LO FEBORM B&W NONE ZÉSK 3312500 25° 16°5 1 °°°°

  CAM-NAD-= 4°82N 34°44E S#ING= 80° PHASE= 70° EMIS\*ANG==19° CAM-RAD-= 2004°2 KM° SUN AZM= 88°6

  MESTERN PART OF LAC 61 TARUNTIUS.LTELL : EASTERN PART OF LAC 60 J°CAESAR,SABINE,JANSEN 6 LAC 79°COLOMBO.NF
- L 1 2 51 0.705 42.76E 51 000 0.082420 8-22-66 LUNAR ORB LO.F#80MM 960 NONE 60K 750800 153 13-3 26 -.70 Cam-Nad-= .285 42.55E Sming= 330. Phase= 70. Emis-ang.= 14. Cam-Rad-= 1799.2 km. Sun azm. 88.0 Northern Pahl Of Lac 79 Columbo.ne.m.nectam
- L 1 Z 52 4.695 40.84E 53 4.4 4.40 152259 8-22-66 LUNAR ORB LO.F.BOHM BGW NONE 59K 737500 314 1.0 28 -... Cam.rad.= .725 40.86E Swing=122. Phase= .2. Emis.ang.= 1. Cam.rad.= 1798.2 km. Sun Azhu 87.5 nokihern part of lac 79 columbo.ne.m.nectar - 6 Southern part of lac at taruntius.lyell
- L | 2 53 U-735 40-98E 53 0-0 0-000 152301 8-22-66 LUNAR ORB LO.F.BOMM B&W NONE 59K 737500 319 +9 28 -.81 CAM-HAD-# -755 41-00E SWING= 127- PHASE= 62- EHIS-ANG-# I- CAM-RAD-# 1798-2 KM- 5UN A7M# 87-9 HONTHENN PART OF LAC 79 COLUMBO.NE-N-NECTAR & SOUTHERN PART OF LAC 61 TARUNTJUS-LYELL
- L I Z 54° U°765 41°13E 53°°° 0°° 0°° 1523U3 8°22°66 LUNAR URB LO°F 00M B&W = NONE 60K 758000 325 °8 28 °°,86 Can'nad° °785 41°15E Swing 133° Phase 62° emis°ang° 1° Cam'rad° 1799°2 km° sun a7m° 87°° Nokiheki Pari uf lac 79 columbo,ne°m°nectar & southern pari of lac 41 tarlytius°lifil

PAGE 267

	KULL		LAT		#	G£T TIMES⇒HH (∮=ESTIM	H SEL	H-DA-YR		ERA-LENS OR Sensor Type	FILH-6	EXPOSURE AND FILTER	TUDE	PT.	T 1 AZ	L T ANG. FR. VERT	ANG.	IDE+ FWD+ LAP B, %
	CAH-N	ΔÐ • ■	.815	41-29	E	SWENG	142.	8-22-66 Phases Ctar	62.	ORB LUSF=80 EMIS*ANG** 6 SOV	1.	- NONE CAM+RAD+# RT OF LAC 61	1799+2	ĸH.	SUN	# 7 A Z H#		88
ι 1	CAMAN	AD + P	. 849	41.44	Ε	COLUMBO	152.	PHASE:	LUNAR ■ 62•	0'(8 LO.F=80 ENIS.ANG.= & 500	1.	" NONE CAM+RAD.= RT OF LAC &I	1799.2	KH+	31 4	•6 #¥#=		-,68
ιI	2 Can.h	57 AD•=	.85S	41.58	Ę	ZM I H G =	166.	8-22-66 PHASE: LOMBO, NE:1	- 62.	ORB LO.F#80 EHIS.ANG.# AR	HH B&W		60K 1799•2	730000 KM+	358 SUN	• é g Z H=	28 87•8	AA
ί 1	2 CAMen	58. AD.=	.915	41.73	Σ	Sw1NG=	181.	8+22-66 Phase Lombo,ne.	62.	ORB LO.F=80 EMIS+ANG.= AR	MM R&W i.	- NONE				+9 A2M=	•	88
įį	Z CAH+I		₩925 ₩949	5 41.87	Ε	Shing=	164.	8-22-66 Phase Lumbo, ne.	= 62.	ORB LO.F=60 EMIS+ANG.=	1. 1.	- None	60k 1799+2	7500NN KM+	28 5UN	AZM#	29 87•8	<b>-</b> ,88
<b>( 1</b>	2 CAH+1			5 42.02	E.	Sw. ผG≖	209.	8-22+66 Phase Lombo,ne.	- 62.	ORB LO.F#80 EMIS+ANG.#	)HH 86#	= NONE Cam+rad+±		750000 KM•		AZM#		88
i, i	C AM + I	61 4AD•#	∪ = 985 1 + ∪∪'	5 42.16	F	5winG=	220.	8-22-66 PHASE LOMBO,NE.	= 62.	ORB LO.F=80 EMIS.ANG.ª	96M 86W • 1.	CAM+RAD+#	69K 1779•2	7500n0 KM•	5 2 SUN	A ZH#	7 29 87•7	88
i l	2 CAM =	62 HAD.=	1+025	5 42.31	E	5#1NG#	228.	8-22-66 PHA5E LUMBO.NE.	= 42,	ORB LO.F#8( , EM[S.ANG.:	* 1.	- NONE Camerades	6gK 1799•2	750000 ! KM•	60 SUN	A Z H =	9 29 97.7	-,88
į l	∠ CAH•	63 Nad•=	1 • u 5 S 1 • U 6	5 42+46	F	SWING=	234.	8-22-66 PHASE LUMBU,NE.	<b>=</b> 62•	R ORB LO.F=80 , EMIS.ANG.	OHH 86₩ • 1•	- NONE		750000 ! KM+	SUN	+' A Z H =	9 29 87•7	88
į i				5 42.60	Œ	5#14G=	239.	8-22-66 PHASE LUHBO.NE.	= 62	? ORB LO.F≡B! . EMIS+ANG.: [AR	OMM B&W = 1.	- NANE Cameradem		759nn0 ! KM•		I. AZMe		
L I	2 Can =	45 NAD•°	1+115	5 42.79	ēΕ	SHING=	242.	8-22-66 Phase Dlumbo,Ne.	= 62	R OHB LU.F=8 - Emis=Ang. Tar	96 NHC	CAM+RAD+=	60K 1799•2	750000 ? kH•	5 74 SUN	1 • AZM=	2 30 87•6	98
L 3	Z CAM.	56 NAD.=	1+155 1+16	5 42.90	DE.	5#1NG=	245.	8-22-68 PHASE DLUMBO:NE	E= 62.	R ORB LU.F=8 . EMIS.ANG. TAN	ეМН 86₩ = 1.	- NONE	E 60K 1799•7	7508NC 2 KM•	) 77 SUN	i azmw	3 30 87•6	-,88

L 1 2 78 0+675 35.93E 54 0+\* 0000 185109 8-22-66 EUHAR ORB EU.F#80HM B6#

				CAC 77 CULUMBU,A	E . M . NECTAR						PAG	E 268
•	# M#	111	FONG.	JRB GET GMT B TÎMES-HR M SEC (*=ESTIMATED)		TYPE		AND FILTER	M=N*HI	RIN. AZ Pi-	ILT SUN ANG. ANG FR.	I SIDF . i. F#D LA
į I	Z 67 CAM.NAD.	1•185 * 1•195	43+10E 43+05E N+ E+ P	53 *** **** 152335 Swing= 248* 'Art uf Lac 79 co	8-22-54 LUNA: PHASE= 62 Lombo,ne.m.nec	R ORB LO.F=8DHM • Emis.ang.= Tar	86# i•	- NONE	60K 75	50000 AD 802	7 1+5 30 V AzM# 87+,	- , A
	-		I OF LAC	\$4 ••• ••• 185045 \$WING= 96. 61 TARUNTIUS,LYEL	L	6 N.	M. PART	05 140	TATORE KING		y azm# 88•!	5
	CAM.NAD.	* .21N * 0. PAR	34.64E 1 OF LAC	54 *** *** 185048 Swing= 97, 61 Taruniius,Lyeli	8-22-66 LUNA; PHASE= 66,	OR8 LU:F=80MH EMIS•ANG•m N• 1	B6# I. W. PART	- NONE	59K 73	17500 289 SUN	1+3 23 AZM= 88+1	5
	CAM-NAD.	* .18N * .0 PAR	34.74E   34.78E   UF LAC	54 ••• ••• 185050 Swing= 98. 61 TARUNTIUS,LYELI	8-22-66 LUNAR Phase= 66.	URB LO.F=80MM EHIS+ANG.= (	RGW La Na Part	- NONE	59K 73	7500 290 SUN	I+2 23	4
	,	· · · · · · · · · · · · ·	OF LAC	54 ••• •••• 185U52 5wing. 99. 61 tarumtius,lyeli	•	URB LU.F=80MM EMI'•ANG.m 1	B6W   .	- NONE	59K 73	7500 292 SUN	1+0 24 Azma 88.4	4
	• •		OF CAC	54 ••• •••• 185855 5wing= 101• 61 taruntius.lyeli		DRB Lt., = BOMM Emis.ang. = 1	BGW  -  - PART	- NONE	58K 72	5000 293 SUN	+9 Z4 AZM= 88,4	i
	= -		OF CAL	54 *** **** 185057 Swing= 104* 61 Taruntius,Lyell		URB LD.F=80MM EMIS.ANG.= 1	B&W	- NONE	58K 72	5000 296 SUN	•7 24 AZH= 88•4	,
	3.	# PARI	UF LAC	SWING# 107. Ei taruntius,lyell		ORS LO.F=SOMM EMIS.ANG.= 1	86W • (	- NONE	58K 729	5000 299 SUN	+6 24 AZM= 88+4	i
	-•	, 40.1	0. 646	54 ••• •••• 185102 5wing= 113. 6i taruntius.Lyell		ORB LO.F=80MM EMIS.ANG.= 1	86W • (	" NONE	58K 725	5000 30 <b>5</b> 5UN	•4 24 Azm= 88•4	
	***		OF CAC	4 ••• •••• 185164 Swing= 123. 79 c@lombo.ne.m.ne	CTAR	ORA LO,F.BOMH LM15.ANG. C U	86% • (	NONE	58K 729	5000 315 SUN	P.BB #MSA	
1	CAH-NAD-=	0+635 •345	35.78E 5	4 ••• ••• 185107 Swing= 146. 79 c0lumbu,ne.m.ne(	8-22-66 LUNAR	ONB LO.F.BOMM	RLW	- NONE	58K 725	000 118	+2 24 A7M# 88+3	- , a a
J	2 78	U+U75 .	35.93E 5	4 *** *** 1851.59	9-22-4			•		C. I. S.		

CAM-HAD-= -U75 35-93E SWINGE 189. PHASE= 66. EMIS-ANG.= 0. CAM-RAD-= 1797-2 KM- SUN AZM= 88.3

- NONE 58K 725000 21 +2 25 -.88

6 5. W. PART OF LAC AT TARUNTIUS LYELL

NORTHERN PART OF LAC 79 COLUMBO.NE.H.NECTAR

6 SOUTHERN PART OF LAC 61 TARUNTIUS, LYFLL

al al	MAG FR.PHUIU PKIN.PT. URB GLT GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE IN KOLL UR LAI. # TIMES-HR M SEC SENSOR AND FILTFR # MAId LONG. (I-MESTIMATED) TYPE #	TUDE PRIN. AZ ANG. ANG. F#D. M≈N.*MI PT. FR. LAP K=KM. VERT 8, %
į l	2 79 0:105 36:08E 54 *** *** 185112 8=22=66 LUNAR ORB LO:F=80MM B6W - NON CAM:NAD:= :165 36:07E	
Li	2 80 U-135 36-23E 54 ++* ++* 185114 8+22+66 LUNAR ORB LO.F#80HM B6# " NON CAM-NAD-= +135 36-21E Swing= 241. PHASE= 66. EMIS-ANG.= D. CAM-RAD-= No no PART UF LAC 79 COLUMBO.NE-N-NECTAR 6 5- No PART OF LAC 61	
	2 BI L-165 36-37E 54 *** *** 185116 B-22-66 LUNAR ORB LO.FEROMM BEW NON CAM-NAD-= :165 36-36E SWINGE 249. PHASE= 66. EMIS.ANG.= 1. CAM-RAD.= N. A. PART OF LAC 79 COLUMBU NE-M-NECTAR & S. B. PART OF LAC 61	1797.2 KM. SUN AZM# 88.3 TARUNTIUS.LYELE
L I	Z 62 U+195 36.52E 54 ++* ++* ++* 185119 8+22+66 LUNAR ORB LO-F=80MM 86W - NON CAM-NAD-= +195 36-50E SWING= 253+ PHASE= 66+ EMIS-ANG+= 1+ CAM-RAD+= N+ n+ PART OF LAC 79 COLUMBO+NE-M-NECTAR 6 5+ f+ PART OF LAC 61	E 9AK 725000 A6 .6.25AA
L \$	Z 83 4-225 36-67E 54 *** *** 185121 8-22-66 LUNAR ORB LO-F=BOHM B&# NON' CAM-NAD-= -225 36-64E	* 15 5
ί3	1 21° 1°845 47°12E 44 °°° °°°° 100419 2-15-67 LUNAR URB H1° 610MM R6W " NONG Cam·Nad== 1°685 46°74E 5#Ing= 271° Phase= 75° Emis•ang== 12° Cam·Rad== N° E° Pari UF Lac 79 COLUMBO°NE°M°NECTAR	E 58K 95082 111 12+0 26 -,•• 1797+2 KH+ SUN AZM# 90+8
ι3	2 25 Johds 11.942 45 000 0.00 133204 2-15-67 LUNAR ORB LO.F=80MM B&R NONE Camonadom 1695 42.03E Swing# 3590 Phase# 660 Emisoango# 40 Camorado# NORTHERN PART OF LAC 79 COLUMBOONE.MONECTAR & SOUTHERN PART OF LAC AT	
ι 3	I 26° U•855 42•12E 45 ••° ••° 133206 2-15-67 LUNAR ORB HI• 610MM R6# - NO:E Cam•nad•* •745 42•16E Swing= 355• Phase= 66• Emis•ang•* 4• Cam•rad•* Northern Part Of Lac 79 Colombo;ne•m•nectar	* *4* 91003 104 = 7.03 10
į 3	2 31 1+115 42+80E 45 *** *** 133217 2-15-67 LUNAR DRB LU-F*80MM BGW * NONE CAM+NAD+= +995 42+82E SWING= 346+ PHASE= 66+ EMIS+ANG+= 4+ CAM+RAD+= NURTHERN PART OF LAC 79 CDLOMBO+NE+M+NECTAR	56k 70nnno 186 3.7 2488 1795.2 km. Sun Azm. 91.2
L 3	1 32 I+165 42+93E 45 000 000 13322U 2-15+67 LUNAR ORB H <sup>I</sup> , 610MM R6W - NONE Cam-Nad-= 1+045 42+94E	56K 918n3 183 3+8 24 -+14 1795+2 KM+ SUN AZH+ 91+1
į 3	I 33° 6.945 42.54E 46 00° 0000 170114 2-15-67 EUNAR ORB HI. 610HM B6W - NONE CAM-NAD-# 1.565 42.2BE SWING# 182° PHASE# 73° EMIS-ANG-# 20° CAM-RAD-# NORTHERN PART OF LAC 79 COLUMBO,NE.M-NECTAR	57К 93443 22 1947 25 1796+2 кн+ SUN AZH# 9142
ι 3	2 33 U-945 42-54E 46 ++* ++** 170114 2-15-67 LUNAR ORB LO-FERONH REW - NONE CAM-HAD-= 1-575 42-28E SWINGE 181+ PHASEE 73+ EMIS-ANG+= 20+ CAM-RAD-E HORTHERN PART OF LAC 79 COLUMBU-NE-M-NECTAR 5 SOUTHERN PART OF LAC 45	

7

MIS MAG FR.PHOTO PRIN.PT. DRB GET GHT H-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE # p PRIN. AZ ANG. ANG. FAD. MAIN LUNG. (ImESTINATED) TYPE M=N.M] FT. FR. Ħ LAP K=KM. VFR: S . S

the second of th

- L 4 Z 60 13 585 48 79 12 00 00 00 170 5-14-67 LUNAR ORB LU F\*80HM 86\* NONE 2738K 342250HD 319 07 23 -- 90 CAM-HAD-# 14 435 49 54E 5\*ING# 1450 PHASE# 660 EMISOANG## 20 CAM-RAD-## 447702 KH0 SUN 47H# 83 00 LAC 79 COLUMBU, NE 1 W21/2 MOON SPHERE 1 LAC 27 GEMINUS, AT 1 LAC 44 CLEOMEDES, MoCRISO & LAC 114 RHF1TA, JANSS
- L 4 I 61 I4-14N 49-69E 12 \*\*\* \*\*\* \*\*\* 173428 5-14-67 LUNAR U HI 610MM 86# NONE 2734K 4481967 278 L 2 25 --49

  CAM-NAD-= 13-67N 51-63E SWING= 93. PHASE= 62. EMIS-ANG.= 3. CAM-RAD-= 4473-2 KM. SUN AZM= 96.2

  LAC 61 TARUMIUS-LYELL : LAC 62 M.UNDARUM, S.CRISIUM : LAC 43 MACROBIUS, PROCLUS & LAC 44 CLEDMEDES.M.
- 4 1 65 14.905 43.30E 13 \*\*\* \*\*\* 050433 5\*15\*67 LUNAR ORB H<sup>1</sup>, 610HM B6W " NONE 2735K 4483607 143 \*4 24 \*\*49 CAH.NAD.\*\* 14.445 42.95E SWING\*\* 329\* PHASE\*\* 67\* EMIS.ANG.\*\* 1\*\* CAM.PAD.\*\* 4474.2 KM\* SUN A7M\*\* 02.8 LASTERN PART OF LAC 97 FRACASTORJUS, S.NECTAR 6 LAC 61 TARUNTIUS, LYELL
- L 4 | 66 | 13-47N | 43-04E | 13-44-40-4053534 | 5-15-67 LUNAR ORB HI-- 610HM R6W NOHE 2731K | 4477049 25% | 1-2 24 -- 33 CAM-NAD-# 13-87N | 44-770-49 25% | 1-2 24 -- 33 CENTHAL PART OF LAC 61 TARUNTIUS, LYELL | 1 EASTERN PART OF LAC 43 HACHOBIUS, 6 NORTHERN PART OF LAC 79 COLOMBO, NE-H

LAC 79 CULUMBO, HE : W>1/2 MOON SPHERE : LAC 43 MACROBIUS, : LAC BO LANGRENUS, M. FERT.

ALTI SCALE AT TILT SUN SIDE. MIS MAG FR. PHUTU PRIN. PT. URB GET GHT H-DA-YR CAMERA-LENS OR FILH-EXPOSURE AND FILTER TUDE PRIN. AZ ANG. ANG. FAO. SENSOR SION ROLL OR LAT. # TIMES-HR M SEC FR. MRNaMI PT. LAP TYPE : I = LSTIMATED! LUNG. MAIN VERT 8 . 8 K=KM. - NONE 2732K 4478689 131 1.2 24 -.47 L 4 1 72 15-775 37-86E 14 \*\*\* \*\*\*\* 170548 5-15-67 LUNAR ORB HI. 610HH BEN CAH-RAD ... 4471-2 KH. SUM AZH. 82-2 LAH.NAD. = 14.505 36.35E SWINGE 316. PHASE 68. EHIS.ANG. 3.

- WESTERN PART OF LAC 79 COLOMBO.NE : CENTRAL PART OF LAC 97 FRACASTORIUS, S. NECTAR & LAC 61 TARUNTIUS, LYFEL L 4 2 12 15-765 37-86E 14 \*\*\* \*\*\*\* 170548 5-15-67 LUNAR ORB LO.F=80MM 86W - NONE 2732k 34150000 131 1+2 24 ++70 CAH+RAD+# 4471+2 XH+ SUN AZH# 82+2 CAMONADOR 14.505 36035E Shings 3160 PHASER 680 EHISOANGOR 30 & LAC 114 RHELTA, JANSS
- .9 25 -.29 - NONE 2727K 4470492 209 L 4 1 73 12-53N 37-59E 14 \*\*\* \*\*\*\* 173646 5-15-67 LUNAR ORB HI. 610MM BEW CAM+RAD+= 4466+2 KM+ SUN AZM# 95+4 PHASE 64. EHIS-ANG. Z. SWING= 23. LAM-NAD-= 13-82N 38-33E I CENTRAL PART OF LAC 43 MACROBIUS. 6 N. W. PART OF LAC 79 COLOMBO.NE.M MESTERN PART OF LAC 61 TARUNTIUS, LYELL
- NONE 2727K 34087500 209 .9 25 -. . . L 4 2 735 12-54N 37-59E 14 00\* 4000 173646 5\*15-67 LUNAR ORB LO.F=80MA 860 CAH-RAD-# 4466-2 KM+ 5UN AZH# 95-4 PHASE # 64. "HIS.ANG." Z. LAM.NAD.= 13.82N 38.33E Swing= 23. & LAC 114 RHEITA JANS I LAC 61 TARUNTIUS, LYELL | Q>1/2 HOON SPHERE DEGRADED NEGALIVE
- NONE 2730X 4475410 141 23 -49 77 14.935 30.15E 15 ... ... 050718 5-16-67 LUNAR ORB HI. 610MM REB CAM-RAD. - 4469-2 KM. SUN AZH# 83-8 SWINGE 327. PHASE - 68. EHIS.ANG. - 1. LAH.NAD.= 14.465 29.77E LAC 19 CULUMBU NE : LAC 18 THEOPHILUS : LAC 96 ALTAI SCAR : LAC 97 FRACASTORIUS, S. NECTAR IRRE RREBADIC ON DRE 3
- .4 23 -.\*\* L 4 2 77% 14-925 30-15E 15 \*\*\* \*\*\* 050718 5-16-67 LUNAR ORB LO.F. 80HM 86W - NONE 2730K 34125000 141 CAM+RAD+# 4469+2 KH+ 5UN AZH# 83+0 Swings 327. PHASE = 68. EMIS.ANG. = I. CAH-HAU-= 14-965 29-77E DEGRADED NEGATIVE : LAC 79 COLUMBO.NE : D>1/2 HOON SPHERE : LAC 42 M. SERENITY. DAMES 6 LAC 78 THEOPHILUS . KA
- NAME 2722K 4467295 248 1+0 24 -,40 L 4 1 78 13-30N 30-21E 15 \*\*\* \*\*\* 053813 5-16-67 LUNAR ORB HI . 610MM BEW CAM+RAD+= 4461+2 KH+ 5UN AZH= 95+4 PHASE 64. EHIS.ANG. 3. SAING= 63. LAM-HAD-= 13-06H 31-68E I LAC 60 J.CAESAR.SABINE.JANSEN : LAC 43 MACROBIUS.PROCLUS & LAC 42 M.SERENITY.D LAC 61 TAKUNITUS.LYELL
- NONE 2717K 33962510 230 +9 24 -- 27 1 4 2 85% 13.00N 23.94E 16 ... ... 173950 5-16-67 LUHAR ORB LO.F.BOHN B6W CAH+RAD+# 4456+2 KH+ SUN AZH# 15+2 PHASE = 65. EMIS.ANG. = 2. Swings 44. CAM+NAD+# 13+89N 25+B4E : LAC 60 J.CAESAR, SABINE, JANSEN : LAC 78 THEOPHILUS, KANT 6 LAC 79 COLOMF 1, NE. M DEGRADED NEGATIVE
- NONE 2956K 36950000 122 1.9 24 -.90 86 41-02N 31-24E 16 40" 400 1813UU 5-16-67 LUNAR ORB LO.F.BOMM 86% PHASER 71. ENIS.ANG. S. CAM.RAD. 4695.2 KM. SUN AZMOIII.7 CAMONADO = 42.80N 27.61E SWING= 286. & LAC 44 CLEOMEDES.M.C 1 LAC 5 PETERMANN, HAYN LAC 26 EUDUXUS.BU ; W>1/2 MOON SPHERE ; LAC 16
- NONE 2972K 37162500 96 4+6 22 -+\*\* 88 44.695 24.94E 17 ... ... 043838 5-17-67 LUNAR ORB LO.F. 80MM BOW CAM+RAD+# 4712+2 KM+ 5UN AZM# 67+8 541NG= 295. PHASE= 80. EMIS.ANG.= 13. CAM-NAD-# 42-265 14-18E : WEST/2 HOUN SPHERE ! LAC 140 SCHRODING : LAC 129 M.AUSTRA : LAC 79 COLOH & LAC 60 J.CAE LAC 113 MAUROLYCUS.RAB. LEVI
- NONE 2720K 34000000 150 •5 21 -••• L 4 2 IUI 15-195 3.83E 19 ... ... OS1444 5-18-67 LUNAR ORB LO.F. BOHH BOH CAM.RAD. 4459.2 KM. SUN AZME 83.4 SWING= 336. PHASE= 69. EMIS.ANG.= 1. CAM-HAD-= 14-455 3-38E LAC 11 PTOLMALUS. ; W>1/2 HOUN SPHERE ; LAC 41 APENNINES, ; LAC 43 MACROBIUS.PROCLUS & LAC 126 CLAVIUS, MAGI
- NONE 2982K 37275000 94 5+0 22 -.\*\* E 4 2 107 42.405 6.45E 20 \*\*\* \*\*\* 164442 5-18-67 LUNAR ORB LO.F#80HH B6# PHASEP BEG EMISHANGOR 140 CAMORADOR 57721-2 KMG SUN AZMR 67-9 CAM-HAD == 42+265 5+424 Sw146≈ 293. I LAC 59 M. VAPORUM. HYGINUS & LAC 79 COLOMBO. NE. M : S>1/2 HUON SPHERE LAC 112 TYCHU, STOFLER

H15 510N	MAG FR.PHUIO PR HULL UR LAT. # MAIH #	IN.PT. ORB	GET GMT TIMES-HR M SE( (##ESTIMATED)	M=DA+YR CAM	ERA-LENS DR Sensor Type	FILH~EXPOSURE AND FILTFR	TUDE PRIN. MENAMI PT.	T ! L T SUN S! A7 ANG, ANG, FR, VERT	E WD.
ί 4 υξ	2 IIUS 42.60N Cah.nad.= 42.77N Graded Negalive I	3.35E 28 0.86E LAC 25 CAS	••• ••• 182013 Swinux 259, SSINI,AL 1 @>1	S-18-67 LUNAR PHASE= 72. /2 MOON SPHERE 1	OHB LO.F.BOMM EMIS.ANG.# 3 LAC I N.POLE	B&W - NONE . CAM.RAD.= NEARSIDE BYRD.PFAR	2916K 364500n0 4655.2 KM. Y >80 N & LAC	94 1+1 21 SUN AZH#109,6 79 COLOMBO.NE	j8 .H.
ιδ	CAM-DADAM -925	55.676	Swing= 177.	6 B-19-67 LUNAR Phase= 8. Nectar	EMISOANG. # 66	B&W - NONE • CAM•RAD•= • PART OF LAC AN	103K 168852 1842+2 KM+ Langrenus+H+FFRT	SUN AZM= 88+2	-,••
	Z J8 4.435 Cam.Had.= .915 I. E. Pari uf Lac	55.52E	Swing= 177.	PHASE B.	EMISKANG.= 86	CAM+RAD+=	103 <sup>K</sup> 1287500     142+2	SUN AZM# 88+2	-,••
	5 U.S. Ja., 40	46.97E 21 51.87E	*** *** 16112 Shing= 179.	6 8-10-67 (UNAR	ORB HI. 610MM ENIS.ANG.= 56		103K 168852 1842•2 KM•	274 53+5 17 SUN AZM# 87+8	-,••
ι	CANADAS 24905	46.94E 28	*** *** 16112 Swing= 179*	7 8-10-67 LUNAR PHASE= 15.	ORB LO.F.BOMH	B&W - NONE 7. CAM+RAD+= ERN PART OF LAC AL	1842+4 K#+	2014 MTU- 0140	-,••
ι 5	1 42 .1.995	44.10E 23	04* 04*0 22340 Swing= 176.	9 8-10-67 LUNAR	ORB HI. 610HM EMIS.ANG.= 55	86% = NONE 5. CAM-RAD-=	102K 167213	268 50.9 18	-,••
ι 5	2 42 U+985 Cam-Nau+= +885 Nonthern Pai	44+38E 23 48+48E HT OF LAC 7	*** *** 22340 5ming= 176* 9 columbu.ne.m.	9 8-10-67 LUNAR Phase= 17. Nectar	ORB LO.F=80MM EMIS+ANG.= 5! & SOUTH	NGN NGNE 5. CAM-RAD ERN PART OF LAC A:	102K 1275000 1841+2 KM+ TARUNTIUS:LYELL	268 51+1 1A SUN AZM# 88+2	-,**
ί 5	1 44 1.255	42.89E 26	*** *** 08072 Swing= 172+	5 8-11-67 LUNAR	R ORB HI. 610HM EHIS-ANG.= !	B6# = NONE 5. CAM+RAD+=	102K 167213	267 4+7 21	-,••
ر 5	2 44 1+245 CAM+HAD+# 1+235	43 • 17E	5wing# 173.	6 8-11-67 LUNAR PHASE≃ 64. OLOMBO.NE.M.NECT	, EMIS.ANG.= !	86W = NONE 5. CAM:RAD.=	E 102K 12750nU 1941+2 KH+	267 4+8 21 SUN AZH# 88+p	-,••
ι 5	1 45* U*975 CAM+NAD+= *975	43.19E	5 N I N G = 175 .	0 8-11-67 LUNAF PHA5E= 64 OLOMBO,NE-M.NEC	EMIS+ANG.*	R&F ~ NON! 5. CAM-RAD.#	E 102K 1672:3 1841•2 KM•	270 4+7 21 SUN AZM# 88+1	-, А
ι 5	2 45 U•985 Cam•nad•= •975 N• E• Par	42+91E 26 43+19E 1 OF LAC 7	••• ••• (18673 Saing= 176• 9 социнви, NE. на	O 8+11+67 EUNAS Phase= 64 Nectar	R ORB LO.F=80HM • EMIS•ANG•= & S•	B&W - NON S. CAM-RAD E. PART OF LAC A1	E 102K 1275000 1841+2 KM+ TARUNTIUS,LYFLL	270 4+8 21 SUN A7M# 88+1	-,8A
<b>L</b> 5	1 460 m.785	42.94F 26	88073	14 8-11-67 LUNAS	MMGIS . IF BRU F	géw = Noni	E 102K 167713	273 4.7 21	10

LAM-NAD. + -715 43+22E SALEGE 179. PHASE = 64. EMIS.ANG. = 5. CAM-RAD. = 1841+2 KM.

N. E. PART OF LAC 74 COLUMBO, NE. M. NECTAR

PAGE 273

,,	LAC 79 CULUMBUINE MINECIAK	ORIGINAL PAGE IS POUR	IGE 273
MIS HAG FR.FHOTO PRI SION ROLL OR LAT. # # HAIN #	N.PT. URB GET GMT M-DA-YR CAMERA-LEN  # TIMES-HR M SEC SENSOR LUNG. (*=ESTIMATED) TYPE	IS OR FILM-EXPOSURE ALT SCALE AT TILT SU AND FILTER TUDE PRIN. AZ ANG. AN HWN.MI PT. FR. KWKM. VERT	IG. FWD.
L 5 2 46 U+695 4 CAM+NAD+= +715 N+ E+ PART	2.93E 26 *** *** 080735 8+11-67 LUNAR ORB LO 43.22E SHING= 179. PHASE= 64. EH15. DF LAC 79 CULUMBO.NE.H.NECTAR 6	+F=80MM 86W - NONE 102K 1275000 273 4+B 2 ANG+# 5+ CAH+RAD+# 1841+2 KM+ SUN AZM# 88 S+ E+ PART OF LAC 61 TARUNTIUS+LYELL	!181  +2
( 5 i 47 u•435 4 CAH•HAD• = •465	2.96E 26 *** **** 08U739 8-11+67 LUNAR URB HI 43.24E	• 610HM 86W - NONE 102K 167213 276 4+7 2 ANG+= 5+ CAH+RAD+= 1841+2 KM+ 5UN AZH= 88	?!!( }.3
L 5 2 47 0.425 4 Cam.Had.= .455 N. E. Part	2.96E 24 *** *** 080739 8*11-67 LUNAR ORB LO 43.24E SWING* 182. PHASF* 64. EHIS. UF LAC 79 COLOMBO,NE.M.NECTAR	*F=80MM 86% - NONE 102K 1275000 277 4+8 2 ANG+= 5. CAM+RAD+= [84]+2 KM+ 5UN A7M= 88 S+ E+ PART OF LAC A1 TARUNTIUS+LYELL	!1 + <sub>1</sub> 8   +3
CAH+HAD+= 1+495	2.98E 27 *** **** 111835 8-11-67 LUNAR ORB HI 41.42E SWING* 2. PHASE* 93. EHIS. N. E. PART OF LAC 79 COLUMBO,NE.M.NECTAR	• 610HH 86W - NONE (OZK 167213 96 24•8 2 ANG.= 26• CAM+RAD+# 1841•2 KM+ SUN A7H= 87	!3 -,*: '+9
L 5 2 48 1+255 4 Cam-Had+= 1+265 N+ E+ Part	2.77E 27 111835 8-11-67 LUNAR ORB LO 41.42E SWING= 2. PHASE= 93. EHIS. UF LAC 79 COLUMBO,NE.M.NECTAR 6	.F=80HM 86% - NONE 102K 1275nn0 96 24.7 2 ANG.= 26. CAM-RAD.= 1841.2 KM. SUN AZM= 87 S. E. PART OF LAC A1 TARUNTIUS.LYELL	3•: '+9
CAM+HAD+= +825	3.COE 27 *** ***   111840 8"11-67 LUNAR OR8 H1 41.45E SWING= 1. PHASE= 93. EMIS: N. E. PART OF LAC 79 COLUMBO:NE:M:NECTAR	, 610HH 86# — NONE 102K 167213 95 24.8 2 ANG.= 26. САМ•RAD•= 1841•2 км• SUN AZM= 88	:3 -,1:  +0
£ 5 2 47 0.965 4 CAH.NAD.= .885 N. E. PARI	3-UDE 27 *** **** 111840 8-11-67 LUNAR ORB LO 41-45E SWING= 1. PHASE= 93. EMIS. UF LAC 79 CULUMBO.NE.M.NECTAR 6	.F=80HH B6W = NONE 102K 1275ПЛО 95 24.7 2 ANG.= 26. CAM-RAD.= 1841.2 KM. 5UN AZM= 88 S. E. PART OF LAC A1 TARUNTIUS,LYE1.L	:3 -,88 i•n
LAN+NAD+# +535	3.03E 27 *** *** 111845 8-11-67 LUNAR ORB HI 41.47E	• 610MM 865 - NONE 102K 167213 95 24•8 2 ANG.= 26• CAM+RAD+= 1841+2 KM+ SUN AZM= 88	:3 -, <sup>.</sup> 3+1
L 5 4 50 0+665 4 CAM+NAD+* +525 N+ E+ PART	3.02E 27 4+* *** 111845 8-11-67 LUNAR ORB LO 41.47E 5ding= 0. Phase= 93. Emis. UP Lac 79 C <sup>O</sup> LUMBD.NE.M.NECTAR 6	•F=80MM 86W - NONE 102K 1275000 95 24•7 2 ANG.= 26. CAM•RAD.= 1841•2 KM• SUN AZM= 88 5• E• PART OF LAC A1 TARUNTIUS•LYELL	!3 ~+8!  +1
CAM.NAD 255	3.05E 27 *** **** 111850 8-11-67 LUNAR ORB HI 41.49E	• 610HH 86# - NONE \$02K 16771 <sup>3</sup> 94 24•8 2 ANG.= 26• CAM•RAD•# 1841•2 KM• 5UN AZH# 88	31: 1+3
L 5 2 51 U•375 4 CAM•NAD•≈ •245 N• E• PARI	3.05E 27 *** **** \$11850 8-11-67 LUNAR ORB LO 41.50E SWING# 360* PHASE# 93* EMIS* DF LAC 79 C <sup>0</sup> LUMBU,NE*H*NLCTAR E	.F#8DMM 86# - NOWE 102K 1275000 94 24.7 2 ANG. = 26.	:388  +3
CAM . HAD . = 2 . 76N	40.00E SHING= 177. PHASE= 17. EHIS.	*F*80MM B6W - NONE 101K 1262500 269 51+7 1 ANG** 56* CAM*RAD** 1840+2 KM* SUN AZM* 89 ** AN J**CAFSAR*SABING**IANSEN 1 18** 78 THEOPHILUS & LAC	• 4

Control of the Contro

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5. H. PART OF LAC 61 TARUNTIUS.LYELL : S. E. PART OF LAC 60 J.CAESAR.SABINF.JANSEN : LAC 78 THEOPHILUS & LAC 79 CO

n 21 n i	# KOFF	HAI4 H	LAT	LONG.	*	( =ESTIM	H SEC ATEDI		S	A-LENS Ensor Type			XPOSURE AND FI			PRIN.			N SIDE. G. FWD. LAP R. R
ί 5	I Can-ii	63° u AU•=	•37S •20S	30.97E		SHING	0.	8-12-67 PHASE= UHBO.NE.H	98.	EMIS.AN	610HH G.= 3i	B&# •</td><td></td><td>Nane 9 • •</td><td>?9K 1838+2</td><td></td><td></td><td>29+1 2 <sub>A</sub>ZH# 83:</td><td>-</td></tr><tr><td>įb</td><td>Z CAM+N</td><td>AD + =</td><td>• 2 u S</td><td>30.97E</td><td></td><td>S#ING=</td><td>0 •</td><td>8-12-67   Phase=   Ctar</td><td>98.</td><td>EMIS.AN</td><td>6.8 31</td><td>_</td><td>CAMADAC</td><td>n</td><td></td><td> 44</td><td>C-1121</td><td>29+0 2: AzM# 88</td><td>3 -,**</td></tr></tbody></table>							

TOTAL PHOTUS IN 1815 GHOUP . 9

HIS MAG FR.PHOTO PRIM.PT. ORB GET GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. SION RULL OR LAT. TIMES-HH M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. LIMESTIMATED . TYPE MEN.MI PT. FR. LAP K=KM. VERT 8. 8

L I 4 29 1.54N 61.42E 35 0.0 0.00 231835 B-19-66 LUNAR ORB LO.F. BOTH BEW - NONE 231K 2887500 206 7.8 16 -... Cam.had. - 2.52N 61.89E Swing 25. Phase 70. Em. 5. Bang. - 9. Cam.had. - 1970.2 km. Sun Azm. 88.9 Southen Part of Lac 62 m. undarum. 5. Crisium 6 northern Part of Lac 80 Langrenus. M. Fert.

L I Z 33° 0-77N 56-83E 39° 00° 134932 8-20-66 LUNAR ORB LO.F#80MM 86° - NONE 224K 2800000 189 800 18 -.00

CAM-HAD-# 1-HUN 57-80E SWING# 70 PHASE# 700 EMIS-ANG.# 90 CAM-RAD-# 1963-2 KM0 SUN AZM# 8807

SOUTHERN PART OF LAC 62 MOUNDARUM-SOCRISIUM 6 NURTHERN PART OF LAC 80 LANGRENUS-NOFERT.

L. I. 4. 34° 34° 46° 58° 30° 30° 60° 60° 134957 8"20"66 LUNAR ORB LOFF#HOMM REW. - NONE 222K 2775000 17° 8°2 20° -°7

CAM-NAD-# 1°52N 58°29E 50'ING# 358° PHASE# 70° EHIS\*ANG\*# 9° CAM-RAD-# 1961°2 KH° SUN AZH# 88°6

SOUTHERN PART OF LAC 62 M°UNDARUM\*S\*CRISIUM & NORTHERN PART OF LAC 80 LANGRENUS\*H\*FFRT\*

£ 4 2 17° 14°450 90°44E 6 \*\*\* \*\*\* 172957 5-11-67 £UNAR ORB £0°F=HOMM R&B - NONE 2739K 34237500 290 °7 28 -.84

CAN-HAD-= 13°89N 91°45E 50'NG= 104° PHASE= 60° EM15°ANG= 2° CAM-RAD-= 4478°2 KM° SUN AZK# 97°5

LAC 64 HE-SMYTHII : W1/4 MUONS SPHERE : EAC 115 FURNEHIUS : EAC 80 EANGRENUS, N. FERT. & EAC 101 TSTOLKOVSKY

e i	LAC BU LANGRENUS, M. FERT.	ł
M J S M	Add to Brown and	PAGE 276
	TAG FR:PHUTU PRIN:PT. URB GET GHT M=DA-YR CAMERA=LENS OR FILM=EXPOSURE ALTI SCALE AT TIL  RULL UR LAT. # TIMES=HR M SEC SENSOR AND FILTER TUDE PRIN: AT AN  M HAIN LUNG: (==EST[MATED] TYPE M=N:MI PT.  R#KM: U	' P
	AN-NAU-= 14-345 69-36E SHIRLE 320+ PHASE= 65+ EMIS-ANG= I+ CAM-RAD+= 4484+2 KM+ SUN AZ	+5 26 =,45
	AM-NAD-= 14-395 69-36E	+5 26 -1+4 'H= 82+2
	46 14-815 63-41E 10	M= 82.3
L A	AN-MAD-# 14-465 62-75E SHING# 307- PHASE# 65- EMIS-ANG-# 1- CAM-RAD-# 4482-2 KM+ SUN AZI DEGRADED NEGATIVE & LAC 80 LANGRENUS-M-FFRT	•5 26 -,•• M= 82•3
	47° 13•32N 62•36E 10 ••• ••• 173242 5=13=67 LUNAR URB H1• 610MM B6W — NONE 2738K 4480525 257  (AL PART UF LAC 62 N•UNDARUN•S•CRISIUM I EASTERN PART OF LAC 44 CLEOMEDES• 6 LAC 80 LANGRENUS•M•FERT.  53 14•825 56•82E 11 ••• ••• 050229 5•4447 2 200	Mm 95.9
TA STAN	53 14-825 56-82E 11 *** *** 050229 5*14-67 LUNAR ORB HI. 610MM B6W * NONE 2740K 4491803 172	•5 25 51

- CAM-NAD-# 14-415 56-14E SHING= 308. PHASE 66. EMIS.ANG. ... RESTERN PART OF LAC BU LANGHENUS MOFERT. •5 25 -,51 CAM+RAD+# 4479+2 KM+ AESTERN PART UF LAC 98 PETAVIUS.H & S. W. PART OF LAC 62 M. UNDARUM.S.
- € 4 2 53% 14.015 56.82€ 11 ... ... 050229 5=14=67 LUNAR ORB LO.F#80MM R6W CAM-NAD . # 14-415 56-14E Sultide 308+ \*\* HONE 2740K 34250000 172 +5 25 -.56 DEGRADED NEGATIVE : LAC BO LANGRENUS. : LAC 44 CLEDNEDES. : LAC 128 HIELA, MATT PHASE 66. EMIS.ANG. 1. CAM+RAD+# 4479+2 KM+ SUN AZM# 82+4 6 LAC 64 NE.SHYTHII HE
- 34 13.59N 56.7GE 11 \*\*\* \*\*\* 053333 5-14-67 LUNAR ORB HI. 610HH 86# CAH+NAD+# 13+89N 58+29E " NONE 2737K 4486885 259 1+0 26 SWING 74. PHASE# 62: EMIS+ANG.= 3. MESTERN PART UP LAC 62 H. UNDARUM, S. CRISTUM CAN+RAD+# 4476+2 KH+ SUN AZH# 96+2 1 CENTRAL PART OF LAC 44 CLEOMEDES, 6 N. W. PART OF LAC BO LANGRENUS, N. 6U 13.585 48.79E 12 ... ... 170326 5-14-67 LUNAR ORB HI. 610MM 86#
- CAH-NAD = 14.435 49.54E HONE 2738K 4488525 319 Swing= 145. PHASE 66. EMIS.ANG. 2. LAC 79 CULUMBU-NE-N-NECTAR .7 23 -.51 CAM+RAD+# 4477+2 KH+ I LAC BO LANGRENUS . M. FERT. I LAC 97 FRACASTORIUS.S.NECTAR & LAC 98 PETAVIUS.HOL SUN AZH- 83.6
- 61 14-14N 49-69E 12 \*\*\* \*\*\* 173428 5-14-67 LUNAR ORB HI. 610HM BER CAH. HAD. = 13.87N 51.63E NONE 2734K 4481967 278 1+2 25 ++49 SWING= 93. PHASE= 62. EMIS.ANG.= 3. LAC 61 TARUNITUS, LYELL CAM-RAD. = 4473+2 KM. I LAC 62 H. UNDARUM, S. CRISTIN SUN AZH# 96+2 I LAC 43 MACROBIUS.PROCLUS & LAC 44 CLEOHEDES.H.
- L 4 2 72 15+765 37+866 14 ++\* ++\* 170548 5=15-67 LUN . ORB L F#80MM B&W CAN-HAD-# 14-565 36-35E SWING# 316. PHASE# 68 EMIS. NG.# 3. NONE 2732K 34150000 131 1-2 29 -.70 LAC 79 CULUMBU. HE I WOLZ MUON SPHERE : LAC 43 MACROBIUS, 1 >C 80 LANGRENUS, 11. FERT. CAH+RAD+# 4471+2 KM+ SUN AZH# BZ+2 & LAC 114 RHETTA. JANSS
- 97\* 12.97N 9.65E 18 \*\*\* \*\*\* 174328 5-17-67 LUNAR ORB LD.F. 80MM R6W CAN-HAD. # 1J. PUN 11.76E NONE 2705K 33812500 245 1.4 22 -.50 241He= 90. PHASE# 65. EMIS.ANG.# 4. LAC 59 H.VAPORUH.HYGINUS \$ \$\\\ \PHERE \$ LAC 12 PLATO ALP1 \$ LAC 80 LANGRENUS HOFERTO 6 LAC 114 RHOITA JA

	MAG Rull		PRINAPT, U	18B	-	M-DA-YR	CAMERA-LENS OR	FIEH-EXPUSURE	ALT: SCALE AT	TILTS	SUN SIDE.
*	#	MAIN #	LONG.	Ħ	TIMES-HR M SEC (**ESTIMATED)		SENSOR Type	AND FILTER	TUDE PRIN. Hww.mj PT. Kekh.	AZ ANG. A FR. VERT	LNG. FWD. LAP 8. 9

TUTAL PHOTUS IN THIS GROUP . 25

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HIS HAG FR.PHOTO PRIN.PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILH\_EXPOSURE ALTI SCALE AT TILT SUN SIDE, SION HULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LONG. ( =ESTIMATED) TYPE LAP M=N.HI PT. FR. K=KH. VERT 8. 8 t 1 2 5 1.84N 24.00E 26 +++ ++++ 144250 8-18-66 LUNAR ORB LO.F#80MM B6W - NONE 218K 27250NU 292 5.4 22 -.++ SWING= 99. PHASE= 63. EHI5.ANG.= 6. CAM.RAD.= 1957.2 KM. SUN AZHE 89.1 LAM-NAD . 1-62N 84-63E

L I 2 6 1.75N 84.58E 26 ... e.e. 1443DD 8-18-66 LUNAR OR6 LO.F#80MM 868 - NONE 718K 2725ODD 293 4.8 22 -.88

CAM-NAD-= 1.52N 85.14E Shingm 100. Phase= 63. Emis.ang.= 5. CAM-RAD-# 1957.2 km. Sun Azm# 89.1

5. L. Paht of Lac 63 neper.schubert.n.smythi 6 N. E. Part of Lac 81 ansgarius.#.m.smythi

S. L. PART OF LAC 63 NEPLK. SCHUBERT. N. SHYTHI G N. E. PART OF LAC AT ANSGARIUS, N. M. SHYTHI

L I 2 7 1.63N 85.16E 26 ... 443ID 8-18-66 LUNAR ORB LO.F.BOMM BGW - NONE 217K 271250D 294 4.3 23 -.88

CAM.HAD.= 1.41N 85.65E SWING= 102. PHASE= 63. EHIS.ANG.= 5. CAM.RAD.= 1956.2 KM. SUN AZM= 89.1

S. L. PAHT OF LAC 63 NEPER.SCHUBERT,N.SMYTHI & N. E. PART OF LAC 81 ANSGARIUS.\*\*.M.SMYTHI

L 1 2 9 1-38N 86-31E 26 \*\*\* \*\*\* 14329 8-18-66 LUNAR ORB LO.F=8DMM B6W - NONE 215K 2687500 29R 3-3 24 --8

CAM-NAD-P 1-19N 86-67E 5WING= 106- PHASE= 63- EMIS-ANG-= 4- CAM-RAD-= 1954-2 KM+ 5UN AZM= 89-0

S- E- PART UF LAC 63 NEPER,SCHUBERT,N.SMYTHI & N. E- PART OF LAC 81 ANSGARTUS.W.M.SMYTH1

L | 2 | 10 | 1-26N | 56-88E | 26 | 000 | 0000 | 144339 | 8-18-66 | LUNAR DRB | LOSSEMBOHN BOW | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 00000 | 00000 | 00000 | 00000 | 0000 | 0000 | 0000 | 0000 | 0000 |

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE HIS HAG FRIPHUTU PRINIPT. UDB GET GMT M-Da-YR CAMERA-LENS OR OH LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FWD. SION ROLL M=N.H1 Pt. LAP MAIN LUNG. 1 = LSTIMATED) TYPE FR. Ħ K=KM. VERT 8. 8

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- L 1 2 15° 0.64N 89.73E 26 °°° °°° 144428 8°18-66 LUNAR ORB LO.F=80MM B&W \* NONE 212K 2650000 B °9 27 °°.87 CAM.NAD.\* .53N 89.72E 5WING\* 176. PHASE\* 63. EMIS.ANG.\* 1. CAM.RAD.\* 1951.2 KM. SUN AZM\* 88.7 S. L. PART UF LAC 63 NEPER.SCHUBERT.N.SMYTHI : LAC 81 ANSGARIUS. : LAC 64 NE.SMYTHII & LAC 82 SE.M.SMYTHI.PASTEUR
- L 1 2 16+ 0-52N 90-3UE 26+++++ 1443B 8-18-66 LUNAR DRB LO-F#80MH 86W NONE 212K 2650000 3B 1+0 2B ++87

  CAN-NAD-# 42N 90-3ZE SWANGW 206- PHASEW 63- EMIS-ANG-W 1- CAM-RAD-W 1951-Z KM+ SUN AZMW 88+6

  5- N- PART UF LAC 64 NE-SMYTHI HERTZ : LAC 81 ANSGARIUS, 1 LAC 63 NEPER-SCHURERT,N 6- LAC 87 SE-M-SMYTHI-PAST
- L 1 2 17 0-40N 90-86E Z6 000 0000 144448 8-18-66 LUNAR ORB LOOFE80MM 86W -- ..ONE 711K 26375NO 58 104 2R -088
  CAM-NAD-= .31N 90-72E SHING= 2260 PHASE= 630 EHIS-ANG== 10 CAM-RAD-= 1950-2 KM- SUN AZM= 88-5
  5- No PARI UP LAC 64 NE-SMYTHII; No Mo PART OF LAC 82 SE-M-SMYTH 1 LAC 81 ANSGARIUS-W-M-SMYT 6 LAC 63 NEPER-5CHUBER
- L 1 2 18 0-27N 91-43E 26 000 0000 144458 8-18-66 LUNAR ORR LO-F=80MM 86M NONE 711K 2637500 70 1-8 29 --87
  LAM-NAD-M -20N 91-23E 5WING= 237. PHASEM 63. EMIS-ANG-M 2. CAM-RAD-M 1950-2 KM- 5UN AZMM 88-5
  S- M- PART OF LAC 64 NE-SHYTHII ; No M- PART OF LAC 82 SE-M-SMYTH ; LAC 81 ANSGARIUS\_W-M-SMYT 6 LAC 63 NEPER\_SCHUBER

- L I & 25 1-23N 76-16E 28 \*\*\* \*\*\* 215625 8\*18-66 LUNAR ORB LO-F#BONM R6W NONE 227K 2837500 191 9-8 17 --\*\*

  CAM-HAD-# 2-49N 76-43E 5WINUM 9- PHA5E= 70- EMIS-ANG-# 11- CAM-RAD-# 1966-2 XH- SUN A7M= 88-8

  S- N- PART OF LAC 63 NEPER-SCHUBERT,N-SMYTH1 6 N- \*- PART OF LAC R1 ANSGARIUS,W-M-SMYTHI
- L & 26 1-62% 71-78E 30 \*\*\* \*\*\* 051116 8\*15\*66 LUNAR ORB LO-F\*BOHH BGW NONE 228K 2850000 201 7-2 17 --\*\*

  CAM-NAD-\* 2-51N 72-13E SWING\* 20. PHASE\* 70. EHIS-KNG.\*\* 8. CAM-RAD-\*\* 1967-2 KM- SUN AZM\* 88-9

  S- N- PAKT UF LAC 63 NEPER.SCH<sup>U</sup>BERT.N-SMYTHI ! N. W- PART OF LAC 81 ANSGARIUS. & LAC 62 M-UNDARUH.S-CRISIUM

- ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE CAMERA-LENS OR M-DA-YR GET GMT MIS MAG FR.PHUID PRIN.PT. URB PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SENSOR TIMES-HR M SEC UK LAÎ. PION ROFF LAP FR. TYPE M=N.M1 PT. ( = ESTIMATED) MAIN LONG. VERT 8. 8 K=KH.
- L 4 I 14.24N 90.44E 6 \*\*\* \*\*\* 172957 5-11-67 LUNAR ORB HI. GIOMB BBA "NOBE 2739K 4490164 Z90 "7 29 ".43 Can.bau.= 13.89N 91.45E Swing= 104. Phase= 60. Ebis.ang.= 2. Cam.rad.= 4470.2 km. Sun a,b= 97.5 Lac 64 Ne.5Byinii Beriz : Lac 46 Joliot Maxwele : Lac 63 Neper,Schubert,N.5Mythi & Eac 45 Plutarch,Bab
- L 4 2 19% 15 0 3N 90 0 5 1E 6 000 0000 173017 5 11 0 67 LUNAR ORR LOOF MAD MAD TO NONE 2740 34250000 312 08 28 -0 3

  CAMONADO TITO 14 0 19N 91 0 48E SWINGE 1260 PHASE OF ENISORIES 20 CAMORADO THORSE 4479 02 KM SUN AZME 98 0 DEGHADED NEGATIVE 1 LAC 64 NEOSHYTHI 1 WITH HOONS SPHERE 1 LAC 81 ANSGARIUS WOM SMYTHI 6 LAC 129 MOAUSTRALE 0
- L 4 2 21 42 98N 98 82E 6 \*\*\* \*\*\* 180334 5-11-67 LUNAR URB LO.F=80MM R&N ... NONE 2979K 37237500 R6 1 8 27 -\*\*\*

  CAN-NAD = 42 88N 94 55E SWING= 249 PHASE= 67 EMIS ANG = 5 CAM-RAD = +718 2 KM SUN AZM=117 AR

  LAC 29 UHUNU FAUK : W>1/2 MUON SPHERE : LAC 81 ANSGARIUS : LAC 146 N-POLE FARSIDE; NANSEN #3 >80N & LAC 64 NE SMYTHI HF
- L 4 2 23° 43°72N 99°00E 6 \*\*\* \*\*\* 180354 5"11-67 LUNAR ORB tO FEROMM R&V = NONE 2983K 37287500 78 1°9 27 +°7

  CANORAD = 43°16N 94°60E SWINGE 241° FRASE= 67° ENIS°ANG = 5° CAMORAD = 4722°2 KM SUN AZMET18°3

  LAC 29 BRUND FABR I 1951/2 HOON SPHERE : LUNAR N° HEMISPHE : LAC 81 ANSGARINS V°M«SMYTHI & LAC 6
- L 4 1 27 15-225 82-67E 7 \*\*\* \*\*\* 045932 5=12=67 LUNAR ORB HI: 610MM B6N = NONE 7747K 4503279 175 \*6 26 --44 Cam-Had-= 14-355 82-59E Swing= 0. Phase= 64. Emis-ang.= 1. Cam-Rad-= 4486-2 km. Sun azm= 81-9 Cehiral Part Up lac 81 ansgarius, 1 eastern part of lac 99 humbolt.gl 1 lac 63 neper.schubert.n.s 4 lac 115 furnerius.ok
- L 4 I 28° IJ-34N 81-88E 7 \*\*\* \*\*\* 053040 5-12-67 LUNAR ORB HI- 610MM RGW NONE 2740K 4491803 258 1°9 26 --15 Cam-Nad-# IJ-94N 84-83E SHING# 73- PHASE# 59- EMIS-ANG-# 5- CAM-RAD-# 4479-2 KM- SUN AZM# 96-3 CENIKAL PAKI UF LAC 63 NEPER-SCHUBERT-N-SMYTHI ; EASTERN PART OF LAC 45 PLUTARCH-H & LAC 81 ANSGARTUS-W-M-SMYTHI
- L 4 I 34% 14-715 76-59E 8 --\* --\* 170009 5-12-67 LUNAR ORB H1- 610MM 86W NONE 2746% 4501639 116 -4 26 --43

  CAN-HAD-- 14-415 75-97E SHING= 3024 PHASE= 64\* EMIS-ANG\*= 1\* CAM-RAD\*\* 4485-2 KM+ SUN AZM# 82-1

  UEGRAUEU NEGATIVE : LAC 81 ANSGARIUS-M+M-SM1 WESTERN PART OF EAC 99 HUMBOLT-GIRB 6 SOUTHERN PART OF EAC 63 NEPER-SCHUB
- L 4 2 34% 14\*7J5 76\*59E 8 \*\*\* \*\*\*\* 170009 5=12=67 LUNAR ORB LOIF=80MM REW = NONE 2746K 3432500D L16 \*4 26 --\*\*

  Cani-had-# 14\*4U5 75\*97E Shing= 301\* Phase# 64\* Enis\*ang\*# i\* Cami-rad\*# 4485\*2 km\* Sun Azm# 82\*1

  Deuraued Negative & Lac 81 ansgarius\*\*, %\*\*M\*\*571YTht

- L 4 I 409 13-28N /0-20E 9 \*\*\* \*\*\* 053159 5\*13-67 LUNAR ORB HI: BIOMN ABW \*\* NONE 7740K 4491A03 245 \*9 27 \*\*38

  LAM HAD \*\* 13-40N 71-57E SWING 59\* PHASE 61\* EMIS\*ANG\*\* 2\* CAM\*RAD\*\* 4479\*2 KH\* SUN AZH\* 96\*4

  DLGHADED NEGATIVE : LAC 63 NEPER\*SCHUBERT\*N\*SMYTHI: L C 62 N\*UNDARUM\*S\*CRISIUM & LAC 45 PLUTARCH\*HAH

## LAC 81 ANSGARIUS.W.M.SMYTHI

PAGE 281

MAG Kull #		U FRIN.PT. ORB LAT. # LONG.	GET GHT H-DA-YR TIMES-HR M SEC (i=ESTIMATED)	CAMERA-LENS OR SENSOR TYPE	FILM-EXPOSURE AND FILTER	TUDE PRIN.	T J L T SUN 51	FMD.
	a			11.0		M±N•H! Pt. K≡KM•	FR. Vert	EAP S. R

TOTAL PHOTOS IN THIS GROUP = 33

SE ALMOST UNUSABLE PHOTOS. THESE IND SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN! DEGRADED PHOTOS. TILI ANGLES: AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS W = APPROXIMATELY NEXT TO MAGR. SEBRACKET MOUNTED: GE CAM. ON GROUND (-).(+).( ), OR(G) = NO INFO SW.A. . SUPER WIDE ANGLE LENST EKTREEKTER 2.8 LENST CAMERA-LENS AS FULLUMS: HISH HASSELBLAD: MAURE MAURER: ZP.ZH.ZS & ZEISS LENSIPLANAR.BIOGEN.SONAR:: FOCAL LENGTHIMMI & MAX.F-OPENING THE AS EXPOS SPEED # 1/1000 FOR ## TWO ZEROSY FOR LUNAR ORBITER & AFIER ALTITUDE ENUALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LIXXX ON ORIGINES. AT PP IF ALT NOT C.O

ALTI SCALE AT TILT SUN SIDE. MIS MAG + R. PHUID PRIN. PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-FXPOSURF SENSOR AND FILTER TUDE PRING AT ANG. ANG. FWD. TIMES-HR M SEC SION ROLL OR LAT. FR. LAP MALIE LUNG. ( = ESTIMATED) TYPE NAN.MI PT. VERT K=KM. R , R

- NONE 213K 2662500 322 1+4 26 -.00 : 1 2 13 J.BAN BB.59E 26 ... ... 144409 8-18-66 LUNAR ORB LO.F=80MM BBW CAM-RAD. = 1952-2 KM-SUN AZHE BB.A CAH+NAD+= +75N 88+70E PHASE= 63. EMIS.ANG.= 2. 5#1HGm 130. . N. E. PART OF LAC BI ANSGARIUS, & LAC 64 NE.SMYTHII HERTZ S. E. PART OF LAC 63 NEPER. SCHUBERT. N. SMYTHI
- NONE 213K 2662500 340 1+1 27 L 1 2 14" U.77N 89.16E 26 \*\*\* \*\*\* [44419 8-18-66 LUNAR ORG LO.F=80MM B&W CAM-RAD. 1952.2 KM. SUN AZM# 88.7 CAN-NAU . . 64R 89.21E SWING# 148. PHASE # 63. EMIS.ANG. = I. S. E. PART OF LAC 63 NEPER. SCHUBERT. N. SMYTH! I LAC 81 ANSGARIUS. I LAC 64 NE.SMYTHII & LAC 82 SE.M.SMYTHI.PASTEUR
- 15\* U+64N 89.73E 26 \*\*\* \*\*\* 144428 8-18-66 LUNAR ORB LU.FEROMM BEN .9 27 NONE 212K 2650000 8 CAM-NAU .= .53H 89.72E SainG= 176. PHASE # 63. EHIS.ANG. = 1. CAM-RAD. # 1951-2 KH. SUN AZM= 88-7 I LAC RI ANSGARIUS. I LAC 64 NE-SMYTHII & LAC 82 SE-M-SMYTHI-PASTEUR S. E. PART OF LAC 63 NEPER. SCHUBERT . N. SMYTHI
- NONE 212K 2650000 38 1.0 28 16+ U+52N 9D+3QF 26 ++\* ++\* 144438 8-18-66 LUNAR ORB E0.F=80MM 86W SUN AZM# 88.6 CAH-NAD-= -42N 98-22F 5%ING= 206+ PHASE = 63. EMIS.ANG. = 1. CAM+RAD+= 1951+2 KH+ 1 LAC 81 ANSGARIUS. 1 LAC 63 NEPER.SCHURERT.N & LAC 82 SE.M.SMYTHI.PAST S. N. PART UP LAC 64 NE.SMYTHIL HERTZ
- NONE 211K 2637500 58 1+4 28 1 1 2 17 0.40N 90.8AF 26 000 0000 144448 8-18-66 LUNAR ORB LO.F=80MM 86M CAMeRADes 1950-2 KM+ SUN AZME BB.S PHASE: 63. EMIS.ANG. .. I. CAM-NAU . . 31N 90.72E \$w}NG= 226. So WE PART OF LAC 64 NE-SMYTHIE: No We PART OF LAC 82 SEOM-SMYTH: LAC 81 ANSGARIUS.WOM-SMYT & LAC 63 NEPER-SCHUBER
- NONE 211K 2637500 70 1+8 29 -+87 L 1 2 18 U-27N 91-43F 26 \*\*\* \*\*\* 144458 8+[8-66 LUNAR ORB LO-F=80MM B6W CAM.RAD. # 1950.2 KM. SUN AZM# 88.5 CAN-HAU. - .20N 91.23E Swing= 237. PHASE= 63. EMIS.ANG.= 2. 5. W. PART OF LAC 64 NE-SMITHER: No. W. PART OF LAC 82 SE-N-SMITH & LAC 81 ANSGARIUS, W. H. SMIT & LAC 63 NEPER, SCHUBER
- NONE 211K 2637500 77 2.2 30 1 1 2 19 U+15N 92+U0E 26 ++\* ++\* 144507 8+18-66 LUNAR ORB LO-F=80HM RGW CAMERADER # # 91.74E SHING= 245. CAM+RAD+# 1950+2 KM+ PHASE 63. EHIS.ANG. 3. I N. m. PART OF LAC 82 SE.M.SMYTH 6 N. F. PART OF LAC BE ANSGARIUS.W. S. n. PART UP LAC 64 NE. SMYTHII HERTZ
- Name 211K 2637500 82 2+7 30 20 U.U.N 92.57E 26 \*\*\* \*\*\* 144517 8-18-66 LUNAR ORB LO.F=80MM B6W SUN AZHE 88.3 Swing 249. PHASE 63. EMIS.ANG. 3. CAM-RAD-= 1950+2 KM-S. W. PART OF LAC 69 NE.SMYTHIL HERTL I N. W. PART OF LAC 82 SE.M.SMYTH 6 N. E. PART OF LAC 81 ANSGARIUS.W.
- " NONE 210K 2625000 94 7+1 35 ".\*\* 21 1-045 97-54E 26 \*\*\* \*\*\* 144643 8-18-66 LUNAR ORB LO.F#80MM R6# L 1 2 SUN AZM# 87.5 LAM-NAD . . 975 46.68E SHING# 262. PHASE = 63. EMIS.ANG. # 8. CAM-RAD+# 1949+2 KH+ & SOUTHERN PART OF LAC 44 NE. SMYTHEE HERTZ MORTHERS PART OF LAC 82 SE.M. SMYTHE PASTEUR

PAGE 283 MIS MAG ER.PHUTO PRIN.PT. URB GET GMT M-DA-YH FII H-FXPOSURF CAMERA-LENS OR ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. # CIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FWD. MAIN LUNG ( = ESTIMATED) TYPS Makami Pt. c H . K-KM. VERT 8. 9 L 1 2 22 1-175 48-13E 26 \*\*\* \*\*\* [44653 8"18-66 | UNAR ORB LO.F = 30MH B6W " NONE 210K 2625000 95 7.7 36 -.87 CAM-HAD-# 1-495 97-20E SWING# 262+ PHASE# 63+ EMIS-ANG-5 9+ CAM-RAD-# 1949-2 KM+ 5UN A7M# 87-3 HURTHERI PART OF LAC BZ SE.M. SHYTHI. PASTEUR & SOUTHERN PART OF LAC 64 NE SHYTHII HERTZ L 1 2 23\* 1.305 98.73E 26 \*\*\* \*\*\* 144703 8=18-66 LUNAR ORB LO.F=80MM 86W - NONE 210K 2625000 95 8.2 36 -,87 CAM.NAD. 1.265 97.73E 561NG= 263. PHASE# 63. EKIS.ANG. 9. CAM+RAD+= 1949+2 KM+ SUN AZH# 87+2 NUMINEUR PART OF LAC 82 SE.M. SHYTHI. PASTEUR 6 SOUTHERN PART OF LAC 64 NE SHYTHII HERTZ 24+ 1+425 99+32E 26 +++ ++++ 144713 8+18-66 LUNAR ORB LO.F. BOMM B&M \*\* NONE 210K 2625000 95 8+8 37 -487 CAM+NAD+= 1+315 98+26E SWING= 263+ PHASE= 63+ EMIS+ANG+= 10+ CAM+RAD+= 1949+2 KH+ SUN AZM= 87+1 NORTHERN PART OF LAC BZ SE.H. SMYTHI. PASTEUR & SOUTHERN PART OF LAC AN NESHYTHIT HERTZ 1 1 1 102 14.685 104.34E 60 \*\*\* \*\*\* 163624 8+23-66 LUNAR ORB HI. 610HR BGW " NONE 1198K 1963934 258 35+8 69 -. + CAM.NAD. # 9.765 150.17E SHING# 254. PHASE# 95. EMIS.ANG. # 81. CAM+RAD+# 2937+2 KM+ SUN AZM#318+3 EASTERN PART OF LAC 82 SE-M-SMYTHI ; LUNAR DISC FARSIDE ; LAC 83 LANGEMAK : LAC 101 TSIGEKOVSKY 6 LAC 100 CURIE L 1 2 102 14.685 164.35E 60 ... ... 163624 8-23-66 LUNAR ORB LO.F. 80MM 864 - NONE 1198K 14975000 258 35+7 69 --++ CAM-NAD. = 4.765 150.38E SNING = 254. PHASE = 95. EMIS.ANG. = 81. CAM+RAD+# 2937+2 KH+ SUN 47H=318+3 LAC 82 SE.H. SHYTH : LUNAR DISC FARSID : LAC 101 TSIULKOVS : LAC 83 LANGEMAK & LAC LLT VAN DER WAAL L 2 1 196 8.845 100.56E 97 ... ... 045805 11-25-66 LUNAR ORB HI. 610MM 86W \* NONE 1519K 2490164 236 CAH-NAD .= 8.775 luli-68E SAING 234. PHASE 70. EMIS.ANG. D. CAM+RAD+= 3258+2 KH+ SUN AZH=272+8 CENTRAL PART OF LAC 82 SE.M. SHYTHI, PASTEUR I NURTHERN PART OF LAC 100 CURIE & SOUTHERN PART OF LAC 64 NE-SHYTHIT H L 2 2 196 8-945 160-54E 97 \*\*\* \*\*\* 045805 11-25-66 LUNAR ORB LO.F=HOMB 868 \* NONE 1519K 1898750D 218 +3 20 -. \*\*

- CAM+HAD+# 8+775 100+68F SWING= 216. PHASE= 70. EMIS.ANG.= 1. CAM+RAD+= 3258+2 KM+ SUN AZM=272+8 LAC 82 SE-N-SNYTH : -1/4 HOONS SPHERE : LAC 64 NE-SHYTHII : LAC 63 NEPER-SCHUBERT N-SHYTHI & LAC 65 GUYOT KING L 4 I 17 14.24N 90.44E 6 \*\*\* \*\*\* 172957 5-11-67 LUNAR ORB HI. 610MM 86W
- \*\* NONE 2739K 4495164 290 •7 29 -43 LAM.NAD. # 13.89N 91.45F Saing. 184. PHASE# 60: EHIS.ANG.# 2: CAM+RAD+# 4478+2 KM+ SUN AZM# 97+5 LAC 64 HE-SMYTHIE HERTZ I LAC 46 JOLIOT HAXMELL : LAC 63 NEPER. SCHUBERT. N. SMYTHI & LAC 45 PLUTARCH. HAH
- L 4 1 18 14.63N 90.47E 6 \*\*\* \*\*\*\* 173887 5-11-67 LUNAR ORB HI, 610MM BEN ■ NONE 2740K 44918∩3 301 47 28 -,90 384-14 NP1-41 = 404N - 91-46E Shing= 116. PHASE= 60. EMIS.ANG.= 2. CAM+PAD+= 4479+2 KM+ SUN AZH= 97+7 LAC 64 NE . SMYTHIE HERTZ I LAC 46 JULIOT MAXHELL I LAC 63 NEPER. SCHUBERT, N. SMYTHI & LAC 45 PLUTARCH. HAH
- 20+ 15-42N 90-54E 6 \*\*\* \*\*\* 173027 5-11-67 LUNAR ORB HI. 610HM 866 " NONE 2741K 4493443 319 .9 28 -.90 CAN ...... 14.34N 91.49E 5kING= 134. PHASE & AD. ENIS.ANG. = 2. CAM-RAD. 4480+2 KH. SUN AZM= 98+2 LAC 64 HE SHTIHII : LAC 46 JULIOT MAXWELL LAC 63 NEPER SCHUBERT, N. SMYTHI I LAC 45 PLUTARCHOR & LAC 82 SEOMOSMYTH
- L 4 2 123\* 1-13N 162-38E 22 \*\*\* \*\*\*\* 232754 5-19-67 LUNAR ORB LU.F=80MM 86W " NONE 6151K 76887499 44 CAM-MAD. = . JU 161.260 5WING = 64. PHASE = 11. EMIS.ANG. = 2. CAM+RAD+# 7890+2 KM+ SEN AZM#271+1 LAC 67 SPENCER : LAC 131 PRANUTE : LAC 6 : EARTHS SPHERE & LAC BZ SF.M.SHYTHI.P

MIS HAG FR.PHUTU PRIN.PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILMLEXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FOD. MAIN LUNG. ( = LSTIMATED) TYPF H=N+HI PT. FR. LAF K-KH. VERT 8. 8

- L I I 136 5-405 129-33E 77 \*\*\* \*\*\* 000 034836 8-26-66 LUNAR ORB HI 610HH BEW NONE 1328K 2177049 359 3-5 21 "" 000 CAM-NAD-# 8-115 129-35E SWING# 3540 PHASE# 700 EMIS-ANG-# 60 CAM-RAD-# 3067-2 KH0 SUN AZM#273-7 EASIERN PART OF LAC 84 DELLINGEH I LAC 65 GUYOT KING 6 LAC 66 MENDELEEV
- L 3 I 121 24-155 126-59E 74 \*\*\* \*\*\* \*\*\* 192200 2-19-67 LUNAR ORB H1. 610HM R6W NONE 1463K 2398361 182 12-7 20 -2-LAM-NAD- 12-92S 127-U9E S#1NG= 184. PHASE= 70. EMIS-ANG.= 24. CAM-RAD.= 3202-2 KM. SUN AZM=277-5 LASIERN PART OF LAC 101 TS1ULKOVSKY ; S. E. PART OF LAC 83 LANGEMAK & N. E. PART OF LAC 117 VAN DER WAA

TUTAL PHOTUS IN THIS GROUP = 6

the first of the product of the section of the sect

CAM-NAD .= 14.925 127.09E Stille 184. PHASE 70. EHIS.ANG. 24.

LAC 103 PAHACELSU 1 W>1/2 MOUN SPHERE 1 LAC 85 KEELER 1 LAC 84 DELLINGER

LAC 101 ISTULKOVS : WI/4 MUUNS SPHERE 1 LAC 83 LANGEMAK : LAC 84 DELLINGER

L 3 4 121 24-255 126-68E 74 \*\*\* \*\*\* 1922UD 2-19-67 LUNAR ORB LG.F=80HH A6W

CAM+RAD+# 3208+2 KM+ SUN 47H=277+5

- NONE 1463K 18287500 181 12+8 20

CAM-RAD+# 3202+2 KM+ SUN AZM#277+4

& LAC B6 DAEDALUS

BIRUT ONL BL &

PAGE 285

ALTI SCALE AT TILT SUN SIDE. HIS MAG FR.PHOTO PRIN.PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILH-FXPOSURE SIUN HULL UR LAT. # TEMES-HR M SEC AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. 5: N50R ( = ESTIHATED) TYPE M=N.MI PT. FR. MAIN LUNG. LAP K=KH. VERT g., 9 L 1 115 2+425 145+25E 69 \*\*\* \*\*\* BOD555 8-25-66 LUNAR ORB H1 610HH REW 🏺 - NONE 1381K 2263934 10 6+8 19 -+\*\* SWINGE 9. PHASER 70. EMIS.ANG. 12. CAM.NAD. # 8.275 144.22E CAM+RAD+= 3120+2 KM+ SUN AZM-272.6 EASTERN PART OF LAC 84 DELLINGER & S. E. FART OF LAC AM MENDELEEV L 1 2 115 2.925 145.26£ 69 \*\*\* \*\*\* DOD555 8-25-66 LUNAR ORB LO.F≃80MM R&W - NONE 1381K 17262508 10 6+8 19 CAM-NaU+= 8-275 144-23E 5W:NG+ 4+ PHASE# 70. EHIS+ANG.# 12. CAM+RAD+= 3120+2 KM+ 500 AZM=27Z+6 LAC 84 DELLINGER 1 LAC 66 MENDELEEV 1 LAC 48 NoMoHUSCOV 1 LAC 65 KEELER & LAC &7 SPENCER L 1 2 116 1-145 153-40E 69 \*\*\* \*\*\* 0C0941 8-25-66 LUNAR ORB LO-F=80MM 86# - NONE 1456K 18200000 36 9.3 11 -.90 CAMENADO = 7.545 148.62E SWING = 310 PHASE = 70. EMIS.ANG. = 17. CAM-RAD = 3195+2 KM+ SUN A7M=271+8 LAC 67 SPENCER : LAC 84 DELLINGER : LAC 85 KEELER : LAC 86 DAEDALUS & EAC 66 MENDELEEV ( ) 2 117° 5.215 95.31E 71 \*\*\* \*\*\*\* D71501 8+25-66 LUNAR ORB LO.F. BORM BEW - NONE 1551K 19762500 267 32+8 65 LAM-NAD. = 6-07S 152-84E SWING= 265. PHASE= 115. EMIS-ANG. = 90. CAH-RAD-= 3320-2 KH+ SUN 42H=284+7 & LAC 66 HENDELEEV PRINOPTO IN SPACE : LUNAR DISC FARSID : LAC 101 TSIOLKUVS : LAC 84 DELLINGER L 1 1 136 5.405 129.33E 77 ... ... 034836 8-26-66 LUNAR ORB HI. 610MM 86W - None 1328K 2177049 359 3.5 21 CAH.MAD. = 8.115 129.35E SWING 354. PHASE 70. EMIS.ANG. = 6. CAM+RAD+= 3067+2 KH+ SUN AZM=273+7 EASTERN PART OF LAC 83 LANGEMAK : WESTERN PART OF LAC 84 DELLINGER I LAC 65 GUYOT KING & LAC 66 MENDELERV L 1 2 136 5-405 129-33E 77 \*\*\* \*\*\*\* 034836 8-26-66 LUNAR ORS LO.F=80MM R6W - NONE 1328K 16600000 359 3.5 21 CAM-RAD .= 3067+2 KH+ SUN A7M=273+7 LAC 83 LANGEMAR : LAC 84 DELLINGER ; LAC 101 TSIOLKOVS; LAC 102 GAGARIN, E.TSIOLKOVSKY 6 LAC 65 GUYOT KING ± 2 2 75 21•215 157•99€ 64 ••• ••• 101218 11-20-66 EUNAR DRR LO.F\*80MM RAW NONE 1469K 18362500 181 12+9 19

TOTAL PHOTOS IN THIS GROUP = - 8

and the contract of the contra

THESE THU SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • • DEGRADED PHOTOS, \$ \* ALMOST UNUSABLE PHOTOS,

TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-),(+),(-), OR(0) = NU INFO | W # APPROXIMATELY | NEXT TO MAG#, B=BRACKET | MOUNTEDI G= CAM, DN GROUND

CAMERA-LENS AS FOLLOWS: SW+A. \*\* SUPER WIDE ANGLE LENS! EKTH=EKTAR Z-8 EENS!

HSB | HASSELBLAD! | HAURE | ZP,Zb,ZS | ZEISS LENSIPLANAR,BIOGEN,SONAR): FOCAL EENGTHIMHI & HAX.F-OPENING

10- AS EXPOS SPEED \*\* 1/1000 (OR \*\* TWO ZEROS)

FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST UATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGONEG, AT PP IF ALT NOT D.O

FILM\_EXPOSURF ALTI SCALE AT TILI SUN SIDE. GEI GHI M-DA-YR CAMERA-LENS OR MIS HAG SRIPHUTO PRINIPT, ORB AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SION RULL OR LAT. # TIMES-HR H SEC SFNSOR MENAMI PT. FR. LAP (I=ESTIMATED) TYPE LUNG. MAIN VERT R. 8 K=KH. NONE 1381K 17242500 10 4+8 19 -+\*\* L 1 4 115 4.925 145.26E 69 ... ... 000555 8-25-66 LUNAR ORB LO.F=80HH 86H CAM-RAD-# 3120+2 KH+ SUN AZM#272+6 CAH. NAD. = 4.275 144.23E SWING= 4. PHASE= 70. EMIS.ANG. = 12. LAC 84 DELLINGER : LAC 66 MENDELLEV : LAC 48 W.M.MOSCOV : LAC 85 KEELER & LAC &7 SPENCER - NONE 1456K 18200000 36 9+3 11 -.90 1 1 2 116 1-145 153-40E 69 \*\*\* \*\*\* DOD941 8-25-66 LUNAR ORB LO.F. BOMM B&W CAM+RAD+# 3195+2 KH+ SUN AZH#271+8 LAC 67 SPENCER : LAC 84 DELLINGER : LAC 85 KEELER : LAC 86 DAEDALUS 6 LAC 66 MENDELEEV - NONE 1455K 18187500 205 +6 20 -+\*\* 1 2 2 33 14-375 1/4-07E 55 000 0000 025426 11-19-66 LUNAR ORB LU-F-BOMM BOW CAM-RAD. = 3194-2 KM- SUN AZH=273-6 LAC 86 DAEDALUS : WI/4 MOONS SPHERE : LAC 67 SPENCER : LAC 69 ENGLEMANDT & LAC 87 KOROLEV.DOPPL - NONE 1453K 18162500 4 16+7 19 -+\*\* 1 2 34 4.59% 173.51E 56 \*\*\* \*\*\* 062254 11-19-66 LUNAR DRB LD.F=80MM B6# CAM+RAD+# 3192+2 KH+ SUN AZM#268+1 CAM.HAD.= 9.945 172.30E SWING= 355. PHASE= 70. EMIS.ANG.= 31. & LAC 67 SPENCER LAC 68 SHARONUY : WS1/2 MC9N SPHERE : LAC 85 KEELER : LAC 87 KGROLEV.OOPPLER - NONE 1469K 2408197 181 12.8 19 -. \*\* , 2 1 75 21-165 158-01E 64 \*\*\* \*\*\* 101218 11\*20-66 LUNAR ORB HI. 610MM 86# CAM+RAD+# 3208+2 KM+ SUN AZM#277+4 WESTERN PART OF LAC 103 PARACELSUS G S. N. PART OF LAC AS KEELER

L 2 2 75 21-215 157-99E 64 \*\*\* \*\*\* 101218 11-20-66 LUNAR ORB LO-F#80MM 86% - NONE 1469K 18362500 181 12\*9 19 -\*\*\*

LAN-NAO-# 9-745 158-42E SWING# 183\* PHASE# 70\* EMIS-ANG-# 24\* CAM-RAD-# 3208\*2 KH\* SUN A2H#277\*5

LAC 103 PANACELSU : #>1/2 HOON SPHERE : LAC 85 KEELER : L.C 84 DELLINGER 6 LAC 86 DAEDALUS

TUTAL PHOTOS IN THIS GROUP = 6

SUN AZM#273+6

THESE THO SYMBULS NEXT TO HAIN OR PHOTO NUMBER HEAN: . . DEGRADED PHOTOS. SE ALHOST UNUSABLE PHOTOS. TILT ANGLES: AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS (-).(+).(), OH(0) = NO INFO - W = APPROXIMATELY NEXT TO MAGE, BEBRACKET MOUNTED: G. CAM. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. . SUPER WIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HS8# HASSELBLAD: MAURE HAURER: ZP.ZB.ZS # ZEISS LENS(PLANAR.BJOGEN.SONAR); FOCAL LENGTHIMM) & HAX.F-OPENING ALE AS EXPOS SPEED # 1/1000 COR ## TWO ZEROS) FUR LUNAH ORBITER K AFTER ALTITUDE EQUALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX DF 1/XXX ON ORIGINES. AT PP IF ALT NOT DIO

HIS MAG FR. PRUID PRIN. PT. ORB GET GHT M-DA-YR CAHERA-LENS OR FILM-FXP05URF ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. TIHES-HR H SEC SEMSOR AND FILTER THOE PRIM. AZ ANG. ANG. FWO. HIAM LUNG. ( = ESTIMATED) TYPE HEN.HI PT. FR. K=KH. VERT 8 . 8 30 10.2/5 162.70# 37 v. \*\* \*\*\* 073501 8-20-66 LUNAR ORB LO.F. BOMM BEW NONE 1299K 16237500 240 2.3 24 -... CAM+HAD+= 9.445 161.18W Sainúm 235. PHASE 70. EHIS.ANG. 4. CAM+RAD+= 3038.2 KM. SUN AZM=276.2 LAC 87 KORULEV.UU : LAC 105 MONUKOVIC : LAC 106 MARIOTTE : LAC 86 DAEDALUS & LAC BB S.W.HERTZSPRU L 1 2 36 8.655 162.10# 39 ... ... 145214 8-20-66 LUNAR ORB LO.F.BOMH B6# NONE 1344K 16800000 20 15 20 CAH+NAD+# 8.995 162.23% SWING= 15. PHASE 70. EMIS.ANG. . 1. CAM+RAD+= 3083+2 KM+ SUN AZM 274.7 LAC 87 KURULEY-DO : LAC 104 ATTKEN-OR : LAC 105 MOHOROVIC : LAC 106 HARIOTTE & LAC R6 DAEDALUS L 1 2 37 7.985 157.768 39 ... ... 145410 8-20-66 LUNAR ORB LO.F. BOHM 868 \* NONE 1381K 17262500 72 247 15 -.90 CAM-NAD-= 8-635 159-81# SWING= 68. PHASE TO. EHIS.ANG. 5. CAM-RAD-= 3120-2 KM. SUN AZH=273-8 LAC 87 KURULEV.DU : LAC 86 DAEDALUS : LAC 104 AITKEN.DR : LAC 68 SHARONOV & LAC 69 ENGLEHARDT 38 7.905 157.264 39 ... . 145423 8-20-66 LUNAR ORB LO.F. 80MH BEN \* NONE 1385K 17312500 73 3.0 15 -. 90 CAM+HAD+# 8+595 159+548 SWING= 68. PHASE TO. EMIS.ANG. 5. CAM+RAD+# 3124+Z kH+ SUN AZH#273+7 LAC 87 KURULEV. DO : LAC 86 DAEDALUS : LAC 68 SHARONDY : LAC 104 ATTKEN, ORLOV & LAC 105 MOHOROVICIC L 1 2 116 1-145 153-40E 69 \*\*\* \*\*\*\* 000941 8-25-66 LUNAR ORB LO.F. BOMM NEW " NONE 1456K 18200000 36 9+3 11 +.90 CAM+NAD+# 7.545 148+62E SWING 31. PHASE # 70. EHIS.ANG. 17. CAM . RAD . ... 3175.2 KM. SUN AZH#271.8 LAC 67 SPENCER 1 LAC 84 DELLINGER : LAC 85 KEELER : LAC 86 DAEDALUS & LAC AS MENDELEEV 1, 2 1 33 10-295 174-09E 55 \*\*\* \*\*\*\* 025426 11-19-66 LUNAR ORB HI. 610HH BER \* NONE 1455K 2385246 207 -5 20 CAN+HAD+# 9.935 174.29E SWING= 204. PHASE TO. EMIS.ANG. - I. CAM+RAD+= 3194+2 KM+ SUN AZI #273.5 MESIERN PART UF LAC 86 DAEDALUS N. W. PART OF LAC IN4 AITKEN, ORLOV Ŀ L 2 2 33 10.395 174.07E 55 ... ... D25426 11-19-66 LUNAR ORB LD.F.BOMM BEN NONE 1455k 10187500 205 .6 20 LAM-HAD+= 9.925 174.29E Swing= 202.

LAC 86 DAEDALUS : 2174 HOUNS SPHERE : LAC 67 SPENCER : LAC 69 ENGLEHARDT & LAC 87 KOROLEV.DOPPL 34 4.71N 173.55E 56 ... ... 062254 11-19-66 LUNAR ORB HI. 610MM REW NONE 1453K 2381967 4 16+3 19 -. . . CAH.NAD. # 9.945 172.29E 5wing= 355. PHASE 70. EMIS.ANG. 31. CAH+RAD+= 3192+2 KH+ SIIN AZH=268+1 MESTERN PART OF LAC 68 SHARONOV

S. A. PART OF LAC 50 HORSE

PHASE 70. EMIS.ANG. . .

CAM - RAD - # 3194 - 2 KM -

6 N. W. PART OF LAC 86 DAEDALUS

34 4-59N 173-51E 56 \*\*\* \*\*\* 062254 11-19-66 LUNAR DRB LO.F #80MM RAW \* NAME 1453K 18162500 4 16+2 19 CAH+HAD+= 9.945 172.30F S#1NG= 355. PHASE= 70. EHIS.ANG. = 31. CAM+RAD+# 3192+2 KH+ SU" AZH=268+1 LAC 68 SHAKUMUV : W>1/2 HOON SPHERE : LAC 85 KEELER : LAC 87 KOROLEV.DOPPLER & LAC &7 SPENCER

KULL		LONG. LAT. PHIN.PT.	*	GET GMT TIMES-HR M SE (Imestinated)	_	CAMENA-LENS OR Sensor Type	FILH-EXPOSURE AND FILTER	ALTI SCALE AT T I TUDE PRIN. AZ Mmn.HI PT. K=KM.		
CAHer	4AD 9.	.745 156.42E		SWING= 183.	PHASE	UNAH ORB LOSF=BONN 70 - EMIS-ANG== 2 LAC 84 DELLI	CAM-RAILE	1469K 183625n0 181 3208+2 km+ SUN 6 LAC 86	AZH=277+5	-,••

TOTAL PHOTOS IN THIS GROUP # 10

MIS MAG FR. PHOTO PRIN. PT. ORB GŁ Ţ GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL UR LAT. Ħ TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG ANG FWD. MAIN LUNG. ( = ESTIMATED) TYPE MEN-HI PT. FR. LAP K=KM. VERT 8 . 8

- L 1 2 28 14-235 153-78W 33 \*\*\* \*\*\* 17052; 8=19-66 LUNAR ORB LO.F.80MH 86W NONE 1304K 16300000 275 1+6 22 +.\*

  CAM-HAD-8 9-395 152-92W SWINGS 221. PHASES 70. EMIS-ANG.8 3. CAM-RAD-8 3043-2 KM. SUN AZM8275-8

  LAC 87 KURULEY-DU ; LAC 69 ENGLEHARUT; LAC 70 N.W.-HERTZS ; LAC 88 S.W.-HERTZSPRUNG-PASCHEN & LAC 105 MOHOROVICIC

- L \$ 2 35 8-725 162-6GA 39 \*\*\* \*\*\* 145201 8-20-66 LUNAR ORB LO.F#80MM B&W NONE 1339K 1673750B 343 \*4 20 -.\*\* Canamado# 9-035 162-51% Swing# 338\* Phase# 70\* Emis\*Ang\*# 1\* Cam\*Rad\*# 3578+2 km\* 5un azm#27\*\*A Lac by Kurulev\*Do : lac 70 N\*\*\*Herizs : lac 88 S\*\*\*Herizs : lac 106 mariotie & lac 105 mombrovicic
- LI I 36 0.655 162.11W 39 000 0000 145214 8-20-66 LUNAR ORB HI. 610HM R66 NONE 1344K 2203279 19 .5 20 -.9

  CAN-NAU. B 6.795 162.23W SWINGE 14. PHASE 70. EMIS.ANG. 1. CAM-RAD. 3083.2 KM. SUN AZM-274.7

  HESTERN PART OF LAC 87 KUROLEV.DOPPLEH 6 N. 6. PART OF LAC INS MOHOROVICIC
- L 1 2 36 8.655 102-10W 39 800 8000 145214 8-20-66 LUNAR ORB LO.F=80MH 86W NONE 1344K 16800000 20 -5 20 -.90 CAN-NAD-= 8.995 162-23W - SWING= 150 PHASE= 700 EMI5-ANG-= 100 CAM-RAD-= 3083-2 KM- SUN A7M=274-7 LAC 87 KURULEV, DU : LAC 104 AIIKEN, DR : LAC 165 MOHONDVIC : LAC 166 MARIOTTE - 6 LAC 86 DAEDALUS
- LI 1 38 7\*935 157\*27N 39 \*\*\* \*\*\* 145423 8\*20\*66 LUNAR ORB HI 610MM BEW NONE 1385K 2270492 73 2\*9 15 \*\*\*91 CAM\*NAD\*\* H\*595 159\*54W SWING\* 68\* PHASE\* 70\* EMIS\*ANG\*\* 5\* CAM\*RAD\*\* 3124\*2 KM\* SWIN AZM\*273\*7 LASTERN PART OF LAC 67 KOROLEV\*DUPPLER 1 S\* E\* PART OF LAC 69 ENGLEHARDT 5 N\* E\* PART OF LAC 105 HOHOROVICIC
- L 1 2 38 7.935 157.268 39 ... 195423 8-20-66 LUNAR ORB LO.F. 80HM B&W NONE 1385K 17312500 73 3.0 15 -.90

  CAN.NAD.F 8.595 157.54W SWINGE 68. PHASE 70. EMIS.ANG.F 5. CAM.RAD.F 3124.2 KM. SUN A7M-273.7

  LAC 87 NORULEV.DU : LAC 86 DAEDALUS : LAC 68 SHARONUV : LAC 104 AITKEN.ORLOV & LAC 105 MOHOROVICIC

LAC 52 JUULE LAMA : WITH MUONS SPHERE : LUNAR W. HENTSPHE : LAC 88 S.W. HERTZSPRUNG, PASCHEN

& LAC 34 FOWLER

MIS MAG FR,PHUIO PRIN.PT. SION KOLL OR LAT. H H MAIN LONG. B	# TIMES-HR M SEC		AND FILTER T	ALTI SCALE AT TILT SUN SIDE, TUDE PRIN. AZ ANG. ANG. FWD. MEN.HI PT. FR. LAP K#KM. VERT 8. %
CAH+NAD+# 7.895 155-178	SAING# 73.	PHASE" 70. EMIS.ANG. 44.	CAM*RAD*= 3	1451k 181375n0 77 7+3 790 3190+2 km+ SUN AZM=272+3 6 LAC 105 HOHOROVICIC
CAM+HAD+= 7+865 155+00#	5#ING= 73.	PHASE 70. EMIS.ANG. 14.	CAM+RAD+# 3	1454K 18175000 77 7.5 690 3193-2 KH+ SUN A2H=272+2 6 LAC 105 MOHOROVICIC
LAM+NAD+= 9+925 174+29E	5 # ING = 202 +	I-19-66 LUNAR ORB LO.F*80MM B& PHASE= 70. EMIS.ANG.= I. SPENCER I LAC 69 ENGLEHAR	CAM-RAD-#	1455K 181875NO 205 +6 20 3194-2 KH+ SUN AZH+273+6 6 EAC 87 KOROLEV+DOPPL
CAH-MAD-= 9.945 172.30E	5 <sub>n1NG</sub> = 355.	L~19-66 LUNAR ORB LO.F=80MM B6 PHASE= 7G. EMIS.ANG.= 31. KEELER : LAC B7 KUROLEV,	CAH+RAD+# 3	
				1247K 174625n0 281 21+3 1** 3136+2 KM+ SUN AZM+271+2

TOTAL PHOTOS IN THIS GROUP # 14

GET GHT M-DA-YR MIS MAG FR.PHULU PRIN.PT. ORB CAMERA-LENS OR F1LM-FXPO5URE ALTI SCALE AT TILT SUN SIDE. SION HULL OH LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LONG. (i=ESTIMATED) 1 YPE M=N.HI PT. FR. LAP K=KH. VERT

L 1 2 35 8-725 162-60W 39 \*\*\* \*\*\* 145201 8-20-66 LUNAR ORB LU-F#80HH B6W - NONE 1339K 16737500 343 \*4 20 -.\*\*

CAM-NAD-= 9-335 162-51W 5WING= 338\* PHASE= 70\* EMIS-ANG\*\* 1\*\* CAM-RAD\*\*\* 3078-2 KH\*\* SUN AZH=274-8

LAC 87 KURULEV.DU 1 LAC 70 N\*\*\*HERIZS 1 LAC 88 S\*\*\*HERIZS 1 LAC 1U6 MARIOTTE & LAC 105 MOHOROVICIC

L 1 2 39 6-495 149-058 39 \*\*\* \*\*\* 145801 8-20-66 EUNAR ORB LO.F #80HK 86W - NONE 1451K 18137500 77 7-3 7 --90
(AH-44D-= 7-895 155-17W Saing= 73. Phase= 70. EHIS.ANG.= 14. CAH.RAD.= 3190.2 KH. SUN AZH=272.3
LAC 88 5-4-HERIZS 1 LAC 87 KOROLEV.DO : LAC 69 ENGLEHARDT 1 LAC 70 N.W.HERIZSPRUNG.ARTEH & LAC 105 MOHOROVICIC

E I 2 40 6+445 148+73% 39 0+0 0+0+0 145810 8-20-66 LUNAR ORB LO+F=80HM 86% - NONE 1454K 18175000 77 7+5 6 -+90 CAM+HAU+≠ 7+865 155+00% SWING® 73+0 PHASE= 70+ EHIS+ANG+≠ 44+0 CAM+RAD+■ 3193+2 KM+ SUN AZM=272+2 LAC 88 5+N+HEHIZS I LAC 87 KOHULEV+DO I LAC 69 ENGLEHARDI I LAC 70 N+V+HERIZ5PRUNG+ARTEM & LAC 105 HOHOROVICIC

L 5 ] 28 26-39N 133-19W 8 \*\*\* \*\*\* 145230 B-08-67 LUNAR DRB H1. 610MM B6W - NONE 5015K 8221311 281 R\*7 8 -\*\*\*

CAN-HAD\*\* 44-16N 103-16W SWING# 90. PHASE# 118. EMIS\*ANG\*# 36\* CAM-RAD\*# 6754\*2 KM\* SUN AZM\*267\*7

LAC 52 JUULE E-MA : W1/4 MOONS SPHERE; LAC 19 CARNOT ROW; LAC 20 COULOMB & LAC 89 5\*E\*HERTZSPRU

L 5 2 32 24.94N 138.09W 13 \*\*\* \*\*\* 155741 8-09-67 LUNAR ORB LO.F=ROHM B&W - NONE 1397K 17462500 281 21.3 1 \*\*.\*\*

CAN-MAD-# 42.60H 116.73W 54ING= 90. PHASE= 130. EMIS.ANG.= 41. CAH.RAD-# 3136.2 KM. 54N AZM#271.2

LAC 52 JUULE E-MA 1 %1/4 HOONS SPHERE 1 LUNAR A. HEMISPHE 1 LAC 88 S.W.HERTZSPRUNG.PASCHEN & LAC 34 FOWLER

t

ALTI SCALE AT TILT SUN SIDE. FILM\_EXPOSURE CAMERA-LENS OR GE 1 GMT H\_DA-YR FR PHOTO PRIN PT. ORB MIS MAG PRIN. AZ ANG. ANG. FWD. TUDE AND FILTER SENSOR TIMES-HR M SEC υH LAT. SION HULL LAP FR. M=N.HI P?\_ ( = ESTINATED) TYPE LUNG. MALN VERT 8. 8 K=KH. 6.9 8 NONE 5009K 8211475 281 5 ... ... 135051 8-07-67 LUNAR ORB HI. 610MM 86# 24 - 26 - 540 120 - 178 SUN AZM#267.8 6748+2 KH+ CAM.RAD. SWING= 90. PHASE = 119. EHI5.ANG. # 37. CAM-NAD .= 24.61N 89.35W & LAC BY S.E.HERTZS : GI/4 HOONS SPHERE : LAC 135 PINGRE N. HAUSEN : LAC 20 COULOMB LAC 53 UHM FERSHAN

TOTAL PHOTOS IN THIS GROUP . 2

REPRODUCIBILITY OF THE ONGENAL PAGE IS POOR

IHESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • = DEGRADED PHOTOS, \$0 ALMOST UNUSABLE PHOTOS,

LILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

LILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

LILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

LILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

LILT ANGLES : AZIMUTH OF DIRECTION OF GROUND

SW.A. = SUPER WIDE ANGLE LENS! EKTR=EKTAR 2.8 LENS!

HOWAR HASSELBLAD: MAURE MAURER! ZP.ZB.ZS ZEISS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTH(MM) & MAX.F-OPENING

LILT ANGLES : AZIMUTH OF DIRECTION OF THE XXX OF LYXXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

CULUMN NEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LYXXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

ALTI SCALE AT TILI SUN SIDE. FILM-EXPOSURE CARERA-LENS OR GMT H-DA-YR HIS MAG +R.PHUTO PRIN.PT. ORB GET PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SENSOR TIMES-HR H SEC SION ROLL OR LAT. rR. LAP PT. M=NaH1 TYPE ( = ESTIMATED) LUNG MAIN VERT R. R K=KH. Ħ

- L 4 2 183 43+53N 71-024 32 \*\*\* \*\*\* \*\*\* 183607 5-24-67 LUNAR ORB LO.F=80MM 86W NONE ZA74K 35925000 79 2\*A 20 --\*91
  CAH+NAD.= 42-84N 77\*39W SWINGE 242\* PHASE= 77\* EHIS+ANG.= 8\* CAM\*RAD.= 4613\*2 KM\* SUN AZME108\*9
  LAC 22 St-9EKAHD.#UNSEN.#ARDING : D>1/2 MUON SPHERE ; LAC 90 LOWELL 6 LAC I N\*POLE NEARSI
- L 4 I 187 14-975 89-060 33 \*\*\* \*\*\* 053334 5=25=67 LUNAR ORB HI+ 610MM B&W " NONE 2723K 4463934 145 05 14 --43 Lam-Nad-= 14-365 89-480 SWING= 33D0 PHASE= 770 EM15-ANG== 10 CAM-RAD== 4462-2 KM0 SUN AZMO 85-4 LAC 73 RICCIULI-NE-UHIENTAL I LAC 90 LOWELL : LAC 108 Modrien(SW 1/3 G) & LAC 91 EICHSTADT-SE
- L 4 I 188 13.38N 89.22W 33 \*\*\* \*\*\* 0400 0604U9 5-25-67 LUNAR ORB HI. 610MM R6W NONE 2675K 4385246 255 1.3 15 -.27 CAM-NAU.= 13.92N 87.19% - SWINGE 69. PHASE= 72. EMIS.ANG.= 3. CAM-RAD.= 4414.2 KM. SUN AZM= 92.7 LAC 55 VASCUDEGAM : LAC 72 ELVEY NOBEL : LAC 37 STRUVE.DAL : LAC 54 BELB LAVE - 6 LAC 73 RICCIOLI.N2.0
- L 4 2 193 63-685 85-98W 34 \*\*\* \*\*\* 162428 5-25-67 LUNAR ORB LO-F=BOMM BEW NONE 3519K 43987508 70 4:8 9 -2\*\*

  CAM-NAD-= 68-875 107-44W SWING= 232. PHASE= 95. EMIS-ANG.= 15. CAM-RAD-= 5258-2 KM. SUN AZM= 68-6

  LAC 135 PINGRE N-HAUSEN : W>1/2 MOON SPHERE: LAC 139 HELMHOLZ.: LAC 90 LOMELL : LAC 74 GRIMA & LAC 127 HOMM
- L 4 2 1945 42.975 d6.51% 34 \*\*\* \*\*\* \*\*\* 170147 S=25-67 LUNAR ORB LO.F.#BOMM R6% " NONE 3803K 37537500 100 5.3 16 \*\*\*\*

  CAM.NAD.\*\* 42.015 99.09% SWING# 297. PHASE# 88. EHIS.ANG.\*\* 15. CAM.RAD.\*\* 4742.2 KM. SUN AZM# 73.3

  DEGKADED NEGATIVE: LAC 123 STEKLOV: 0>1/2 MODN SPHERE: LAC 134 BOLTZMANN 6 LAC 90 LOMELL
- L 4 1 195 14-715 94-60W 34 \*\*\* \*\*\* 173356 5-25-67 LUNAR ORB HI: 610MM R6W NONE 2721K 4460656 109 I:O 15 --,45

  CAM-HAD-= 14-4US 96-11W SWING= 294. PHASE= 78. EMIS-ANG.= 3. CAM-RAD-= 4460-2 KM. SUN AZM= 85.2

  EASTERN PART OF LAC 90 LOWELL : LAC 108 M-ORIENTS 6 LAC 91 EICHSTADT.SE\*ORIENTAL
- L 4 1 196 12.86N 94.86N 34 \*\*\* \*\*\* 188431 5-25-67 LUNAR ORB HI: 610MM B6N NONE 2475K 4385246 274 \*9 15 -: 25

  CAN-NAD. # 13.88N 93.82W SWINGE 38. PHASEE 73. EHIS.ANG. # 2. CAM.RAD. # 4414.2 KM. SUN AZME 92.7

  EASIERN PART OF LAC 72 ELVEY NOREL ; EASTERN PART OF LAC 54 BELB LAUE ; LAC 90 LOWELL 6 LAC 37 STRUVE.DALTOR

CAMERA-LENS OR HIS HAG FR.PHUTU PRIN.PT. URB GË T GMT M-DA-YR FILH-EXPOSURE ALT: SCALE AT TILT SUN SINF. TIMES-HR M SEC PRIN. AZ ANG. ANG. FWD STON RULL UR LAT. SENSOR TUDE AND FILTER Pτ. ( = LSTIMATED) TYPE M#N.HI rR. 1.4 MAIN LUNG. VERT K=KM. 8. 8

- L 4 | 167 42-015 60-70W 30 \*\*\* \*\*\*\* 170012 5-23-67 (UNAR ORB H1, 610MH B6W NONE 3009K 49327R7 95 5-0 17 --\*\*

  CAM-HAU-= 41-825 72-48W SWING= 292- PHASE= 86. EMIS-ANG.= 14. CAM-RAD-= 4748-2 KM+ SUN AZM= 72-6

  EAC IIU SCHICKARU : LAC 109 PIAZZI+V+ : LAC 124 PHOCYLIDE : LAC 125 SCHILLER-SEGNER & LAC 91 EICHSTADT-SE-
- L 4 1 108 14-455 68-18W 3J \*\*\* \*\*\* 173229 5\*23\*67 LUNAR ORB HI 610MM 86W NONE 2722K 4462795 103 \*9 17 -:47

  CAN-MAD\*\* 14-145 69-56W SWING\*\* 2880 PHASE\*\* 760 EMISOANG\*\*\* 20 CAM-MAD\*\*\* 4461-2 KM\*\*\* SUN AZM\*\*\* 84-9

  LAC 74 GKIMALUI.BILLY ; LAC 73 RICCIOLI.NE.ORIENTAL ; LAC 91 EICHSTADT.SE.ORIENTAL & LAC 92 BYRGIUS.DARW

- £ 4 1 181 13-095 82-1HW 32 \*\*\* \*\*\* \*\*\* 17.3307 5-24-67 LUNAR ORB HI, 610HM B&# HONE 2724K 4465574 26 \*\* 9 15 --49

  CAH-HAD-# 14-405 82-86W SWINGE 212. PHASE# 76. EHIS-ANG-# 2. CAM-RAD-# 4463-2 KM# SUN AZM# 85-7

  CENTRAL PART OF LAC 73 RICCIOLI-HE-ORIEN : CENTRAL PART OF LAC 91 ETCHSTADT-SE-ORIE & S. W. PART OF LAC 55 VASCODEGAMMA-HED
- L 4 1 116 42-275 81-34W 33 \*\*\* \*\*\* 050123 5=25=67 LUNAR ORB H1+ 610HM B6W NONE 3006K 4927869 95 4-7 16 --\*\*

  LAC 104 PLAZZI.V-BUUVARD \$ LAC 135 PINGRE N-HAUSEN ; LAC 124 PHOCYLIDES 6 LAC 123 STEKLOV
- L 4 i 194 42.975 86.50W 34 \*\*\* \*\*\* 170147 5-25-67 LUNAR ORB HI. 610MM B&# NONE 3003K 4922951 100 5.3 16 -.90

  CAM-HAD-= 42.015 99.09W 5WING= 297. PHASE= 88. EHIS-ANG.= 15. CAM-RAD-= 4742.2 KM. SUN A7M= 73.3

  LAC 123 5TEX-LOV : LAC 109 PLAZZI, V.BOUVARD ; LAC 135 PINGRE N.HAUSEN & LAC 124 PHOCYLIDES

м15 МАС ООН МОСС В В		U PHIN,PT, ORB LAT, # LONG,	GET GHT M=1 TIMES=HR M SEC (T=ESTIMATED)	DA-YR CAMEHA-LENS OR Sensor Fype	FILM-EXPOSURE AND FILTER		T 1 L T SUN S AT ANG. ANG. FR. VERT	
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L 4 L 195 14.915 94.60% 34 \*\*\* \*\*\* 173356 5-25-67 LUNAR DRB HI. 610HM B&W - NONE 2721K 4460656 109 1.0 15 -.48

CAM.NAD. 14.465 96.11% SWING= 294. PHASE= 78. EMIS.ANG.= 3. CAM.RAD.= 4460.2 KH. SUN AZH= 85.2

EASTERN PART OF LAC 96 LUMELL : LAC 108 M.ORIEN(5 & LAC 91 EICHSTADT, SE.ORIENTAL

TOTAL PHOTOS IN THIS GROUP # 10

IMEST THO SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • = DEGRADED PHOTOS. \$2 ALMOST UNISABLE PHOTOS,

ITLE AMORES: AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS

ITLE AMORES: AZIMUTH OF DIRECTION OF TILTIAZE & VERTICAL TO CAMERA AXIS

ITLE AMORES: WE APPROXIMATELY NEXT TO MAGE, B2BRACKET MOUNTED: G2 CAM, ON GROUND

CAMERA-LENS AS FULLOMS: SW.A. = SUPER WIDE AMORE LENS: EKTR\_EKTAR 2=8 LENS:

HSB= HASSELBLAD: MAURE MAURER: ZP,ZB,ZS = ZEISS LENS(PLANAK,BIOGEN,SONAR): FOCAL LENGTH(MM) & MAX.F=OPENING

IN AS EXPUS SPEED = 1/1000 (ON \*\* TWO ZEROS)

FUN LUNAN ORBITER K AFIER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINEG. AT PP 1F ALT NOT O.O.

ALTI SCALE AT TILT SUN SIDE, FILH\_EXPOSURE CAMERA-LENS OR M-DA-YR GET GMT MIS HAG FR. PHOTO PRIM. PT. ORB PRIN. AZ ANG. ANG. FAD. AND FILTER TUDE SENSOR TIMES-HR M SEC SIUN ROLL UK LAT. LAF MeN.MI PT. r R TYPE ( I=ESTINATEU) I. DNG . MALN VERT K=KH.

- L 4 2 144 14.04N 41.77N 26 \*\*\* \*\*\* 175854 5=21=67 LUNAR ORB LO.F#80MM RGW = NONE 2669K 33362500 280 \*5 19 -.78

  Can.Nad.# 13.90N 41.01N 5%ING# 94. PHASE# 70. EMIS.ANG.# 1. CAM.RAD.# 4408.2 KM. SUN AZM# 94.3

  LAC 57 KEPLER.ENC 1 W>1/2 HOON SPHERE 1 LAC 92 BYRGIUS.DA 1 LAC 10 BABBAGE.N.PROCELARM. & LAC 26 EUDOXUS.BURG
- L 4 I 148 42.955 41.38% 27 ... 44.045722 5-22-67 LUNAR ORB H<sup>I</sup>. 610MM B&W NONE 3009K 49327R7 99 4.6 18 -... Cam.Nad. 42.115 52.33% 5W1NG# 297. PHASE# 84. EMIS.ANG. 13. CAM.RAD. 4748.2 KM. SUN AZM# 71.6 LAC 110 5CHICKAND : LAC 111 WILHELM.E : LAC 125 SCHILLER. 1 LAC 92 BYRGIUS.DARWIN & LAC 93 M.HUMOR.GASS
- L 4 I 149 15+055 48+76# 27 444 4440 5-22-67 LUNAR URB HI+ 610MM B6# NONE 2720K 4459016 127 +7 18 -+49

  CAM+HAD+= 14+405 49+64W SHING= 313+ PHASE= 74+ EHIS+ANG+= 2+ CAM+HAD+= 4459+2 KM+ 5UN AZH= 84+4

  LAC /5 LETHONHETF I EAC 74 GRIHALDI+B I LAC 92 BYRGIUS+DA I LAC 93 M+NUMOR++GASSENDI & LAC 56 HEVELIUS+REIN
- L 4 2 ISU 12.76N 49.29N 27 \*\*\* \*\*\* 060012 5=22=67 LUNAR ORB LO.F#80MM R6W "NONE 266RK 3335HOOD 234 1.3 18 \*\*11

  CAM.NAD. I3.91N 47.59W SWING# 48. PHASE# 70. EMIS.ANG.# 3. CAM.RAD.# 4407.2 KM. SUN AZM# 93.5

  LAC 57 KEPLEK.ENC I W>1/2 HOON SPHERE I LAC 92 BYRGIUS.DA : LAC 11 J.HEGSCHEL.JURAS.ROUGHER & LAC 59 COPERNICUS.RE
- L 4 I 1-5 42-415 48-89% 28 44\* 44\* 65826 5\*22\*67 LUNAR ORB HI: 610MM B6W NGNE 3011K 4936066 95 4:3 17 \*\*\*90 CAM:\*NAD:\*\* 42-075 59-07W SWING:\*\* 293\* PHASE:\*\* 84\* EMIS:\*ANG:\*\*\*12\* CAM:\*RAD:\*\*\* 4750\*2 KM\* SUN AZM:\*\*72\*R CENTRAL PART OF LAC 118 SCHICKARD: LAC 118 WILHELM:\*EL | LAC 125 SCHILLER: | LAC 92 848G1US:\*DARWIN & LAC 93 M\*\*HUMOR.\*\*
- L 4 | 156 | 14.885 | 55.867 | 28 | 64 | 640 | 173043 | 5-22-67 | LUNAR ONB HI. 610MM R&W NONE 2722K | 4462295 | 136 | 64 | 17 | 649 | CAMENADE 14.395 | 56.25% | SHINGE 321. PHASEE 74. EHIS.ANG. 1. CAMERADE 4461.02 KM. SUN AZHE 84.7 | EASTERN PART OF LAC 92 84RGIUS.OA | LAC 56 HEVELIUS.REINER & LAC 93 M.HUMOR. GASS
- E 4 1 160 42-795 54-526 29 \*\*\* \*\*\* 045917 5=23=67 LUNAR ORB HI: 610MM R6W NONE 3012K 4937705 99 4+8 17 +-\*\*

  CAM-HAD-= 42-J35 65-80W 561NG= 296- PHASE= 85- EMISEANG= 13- CAM-RAD-= 4751-2 KM+ SUN A7M= 72-3

  LAC 110 SCHICKARD : BESTERN PART OF LAC 125 SCHILLER; I SOUTHERN PART OF LAC 92 BYRGIUS\_DARMIN // LAC 124 PHOCYLIDES
- L 4 I 161 15-135 61-784 29 \*\*\* \*\*\* 053134 5-23-67 EUNAR ORB HI\* 610HH R6W NONE 2723K 4463934 129 \*8 17 --48

  CAH-NAD\*\* 14-365 62\*946 SWING\*\* 315\* PHASE\*\* 75\* EHIS\*ANG\*\*\* 2\* CAM\*RAD\*\* 4462\*2 KM\* SUN AZH\* 84\*7

  CENTRAL PAKT OF LAC 74 GRIMALDI\*B : CENTRAL PART OF LAC 92 BYRGIUS\*DA ; LAC 56 HEVELIUS\*REINER & LAC 109 PIAZZI\*V\*BOU

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR GET GMT M-DA-YH MIS MAG FR.PHUTU PKIN.PT. URB AND FILTER TUDE PRING AZ ANG. ANG. FWD. TIMES-HR M SEC SENSOR SION ROLL OR LAT. LAP MEN-MI PT. FR. TYPE ( = ESTIMATED) MAIR LUNG. VERT 8. 8 K=KM. - NONE 3009K 4932787 95 5+0 17 -.\*\*

L 4 | 168 | 14-455 | 68-184 3J = 4 4 444 173229 | 5-23-67 LUNAR ORB HI + 610MM B&W "NONE 2722K 4462295 103 49 17 - 47

CAM-HAD = 14-145 | 67-56W | SWING= 288 + PHASE= 76 + EHIS+ANG = 2 + CAM-PAD = 4461 - 2 KH + SUN AZH= 84 + 9

LAC 74 GHIMALUI = BILLY | \$ LAC 73 HICCIDLI = 14E + URIENTAL | \$ LAC 91 EICHSTADT = 5E = ORIENTAL | \$ LAC 92 BYRGIUS + DARW

L 4 1 172 42.045 67.948 31 0.0 0.00 050029 5-24-67 LUNAR ORB H1. 610HM 86% - NONE 3011K 4936066 100 4.8 16 -... Cam.hau.= 41.985 74.20% 581NG= 297. Phase= 86. Emis.ang.= 13. Cam.rad.= 4750.2 km. 508 azm= 73.1 Lal 104 Piazzi.v. Lal 110 Schickard I Lac 124 Phocylide I Lac 125 Schiller, Segner 6 Lac 91 Eichstadt.5E.

TOTAL PHOTOS IN THIS GROUP # 13

MIS MAG FR. PHOTO PHIN. PT. ORB CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. GEI GMI M-DA-YR SIUN KULL Ur Lai. TIMES-HR H SEC SENSUR AND FILTER TUDE PRIN. AT ANG. ANG. FWD. MAIN (I=ESTIBATED) TYPE FR. LAP LUNG. M=N+HI PT. VERT K=KM. 4 8

- L 4 & 130 65-025 25-85W 24 \*\*\* \*\*\* 161143 5-20-67 LUNAR ORH LO-FEBOMM BEW NONE 3575K 44687500 46 4\*1 9 --\*\*

  CAM-NAD: 71-625 40-64W SWINGE 211: PHASEE 91: EMIS-ANG-E 13: CAM-RAD-E 5314-2 KH- SIN A7HE 69-3

  LAC 137 HE-TON-MO; W->1/2 HOON SPHENE; LAC 131 PRANDTL ; LAC 93 H-HUHOR-\*GASSEND1 & LAC 113 MAUROLYCUS-R
- L 4 1 131 36+515 23+47# 24 \*\*\* \*\*\* 165252 5=20=67 LUNAR ORB HI+ 610HM 86# ™ NONE 7999K 4914393 52 5+0 70 =+\*\*

  CAM+NAD+= 42+205 32+12# SWING= 251+ PHASE= 83+ EHIS+ANG+= 14+ CAM+RAD+= 4738+2 KM+ SUN AZM# 74+0

  LAC 111 WILHELM+ELGER+MEE ; LAC 112 IYCHO+510FLER ; LAC 93 M+HUMOR++GASSFND1 & LAC 94 PITATUS+M+NU
- L 4 I 132 9-145 29-59# 24 \*\*\* \*\*\* 172507 5-20-67 LUNAR ORB HI. 610MH R6# NONE 2717K 445409B 1 3+4 19 --50

  LAM-HAD-= 14-425 29-69# SWING= 188+ PHASE= 72+ EMIS-ANG= 9+ CAM-RAD-= 4456-2 KH+ SUN AZM= 86+2

  LAC 76 RIPHAEUS HI-FRAU MAURO ; LAC 75 LETRUNNE,FLAHSTD ; LAC 93 M-HUMOR--GASSFND1 & LAC 94 PITATUS.M-NU
- L 4 2 133 18+74N 29+69N 24 \*\*\* \*\*\* \*\*\* 175540 5-20-67 EUMAR ORB EO-FEROMM BEW TO NONE 2473K 33412500 340 3+3 19 -+20
  LAN-MAD+\* 13+91N 27+86W SHING\* 156\* PHASE\* 66\* EHIS+ANG\*\* 8\*\* CAM\*RAD\*\* 4412+2 KM\*\* SUN AZM\*\* 95\*9
  LAC 40 TINUCHARIS-LAMBERT : W>1/2 HOON SPHERE : LAC 93 M\*\*HUMOR\*\*\*\*, GASSENDI & LAC 2 ANAXIMENES\*\*\*PA
- L 4 1 137 14.905 35.28W Z5 0.0 0.00 052651 5-21-67 LUNAR ORB HI. 610MM B&W -- NONE 2718K 4455738 119 07 19 -048 Lam.Had.= 14.405 36.33W -- Swing= 305. Phase= 73. Emis.ang.= 2. Cam.Rad.= 4457.2 km. Sun azm= 84.1 Easiend Pari Up Lac 75 Letrunne.f; Eastern Part Of Lac 93 M.Huhor..gassendi & lac 94 Pitatus.m.nubium
- L 4 | 142 42-045 33-376 26 \*\*\* \*\*\* 165605 5-21-67 LUNAR ORB HI- 610HM RGW NONE 3MM7K 4929508 93 5-7 20 --\*\*\*

  CAM-HAD-\* 42-145 45-58% SWING\* 291- PHA5E\* 84. EMIS-ANG-\* 14- CAM-RAD-\* 4746-2 KM- SUN A7M\* 70-4

  WESTERN PART OF LAC 111 WILHELM-EE : LAC 125 SCHILLER-S : LAC 126 CLAVIUS-M : LAC 93 M-HUMDR\*.GASSENDI & LAC 110 SCHICKAR

S. E. PART OF LAC 93 M.HUMOR. GASSENDS

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			(MANAGE AND	
ti.	w flMt5=HK M SEC G• (+*tST:MATED)	SE NSON TYPE	AND FILTER TU H K	TI SCALE AT TILT SUN SIDE. DE PRIN. AZ ANG. ANG. FWD. I=N.MI PT. FR. LAP. GEKM. VERT 8.9
L 4 1 148 42.955 41.387 CAM-HAD.= 42.115 52.33 LAC 110 SCHICKARD 1 LAC	n 27 ••• •••• 045722 5• 34	-22-67 LUNAR ORB HI. 610HH PHASE= 84. EHIS.ANG.= 13 SCHILLER, ; LAC 92 BYRGIU	364 - NONE 30 CAM-RAD-E 47 S,DARWIN	109K 4932787 99 4+6 18
CAM-NAD-# 14.465 44.64	4m 5m114G# 313.	PHASE THE EMISEANCE 2	CAMADAD 94	720K 4459016 127 -7 1849 159+2 KH+ SUN AZH= 84+4 & LAC 56 HFVELIUS.REIN
L 4 2 154 71.735 33.521 Camemade # 72.675 69.24 Lac 137 NewTun,no : 4174	9n SalNC± 268.	PHA5E= 94. EMIS.ANG.= 16	CAM+RAD+= 53	613K 45162500 105
L 4 1 155 42+415 48+897 CAH+HAD+* 42+U/5 59+D7 CENTRAL PARI UF LAC 110 SC	7n SnihG= 293.	PHASE # 84. ENIS.ANG. = 12	CAM+RAD -= 47	111K 4936066 95 4+3 17 90 50+2 km+ 5un Azm# 72+8 Rwin & Lac 93 H+Humor.,
CAM+HAD+# 14+395 56+29	34 7414G# 321•	PHASE 74. EHIS.ANG.	CAMaradaw 44	ZZK 4462295 136 +4 17 ++49 61+2 KH+ SUN AZH# 84+7 ER & LAC 93 M.HUHGR.+GASS
CAM+HAD+= /1-195 82-44	IN 501NG= 264.	PHASE 93. FMIS.ANG. # 10	CAMADAN- 53	93K 449125DD 101 3.4 7 32-2 KM. SUN AZD~ 66.4 6 1AC 93 M.HUMORGASS
CAM+NAD+ 14-14N 67-33	3m 5aing= 62.	PHASE 71. FHIS.ANG. 2	CAMARADAM 44	72K 33490000 248
L 4 2 174 13+37H 76+00M CAM+NAD+= 13+91M /3+95 LAC 55 VASCUUEGAM ; W>1/2	54 5414C= 69.	PHASE 71. FHIS.ANG. 3	CAM-RAD-# 44	73k 33412500 255   1+3 16   + 50 12+2 km+   5un azm= 93+0 & Lac 24 Sinus Iridum
L 4 2 179 69.525 74.078 CAM-NAD = 71.385 96.22 LAC 136 BALLLEY.K 1 32772	24 Saints 246.	PHASE 94. FHISANG. = 11	CAMORADA 53	92K 44900000 RA 3+6 7** 31+2 KM+ SUN AZM= 6R+2 6 LAC 93 M+HUMOR+.GASS
L 4 2	74 SainG= 143.	PHASE # 72. EHIS.ANG. = 3	CAH-RAD- 44	74K 334250ND 329   1+0   16
į 4 2 1945 42.975 86.51π CAM.«NAD» 42.615 99.05	y 34 *** *** 174147 5- 9n Swing= 297*		36# = NONE 30 •	103K 37537500 jnn 5+3 16** 42+2 km+ SUN AZM= 73+3 6 LAC 9N LOWELL
	7 70 *** **** 040440 8** In SminGa 159.	PHASE# 70. EMIS.ANG.= 11		69K 277049 255 9.8 10

.

- See topy A ipplication in the See top

MIS MAG FROPHUTO PRIM SIUN RULL UR LATO MAIN N	e.PT. URB GET GMT  ### TIMES-HR M SEC LUNG. (#=ES11MATED)	M-DA-YR CAMERA-LENS ( SENSUR TYPE	R FILM-EXPOSURE AND FILTER	ALTI SCALF AT TI TUDE PRIN. AZ MmN.MI PT. KNKM.	LT SUN SIDE. AMG. AMG. FAD. FR. LAP VERT 8. 8
CAM+NAD = 30.3cS 3	7.61N 70 *** *** 040441 36.51N SWING= 160. 3 M.HUMOR.,GASSEND1	PHASE 70. EMIS.ANO	-= L1 - CAM+RAD+=	1908+2 KM+ 50N	AZM= BZ+6
CAM-NAD.= 18.695 4	1-194 73 *** *** 134107 10-614 SWING= 37. (THERN PART OF LAC 93 M+H	PHASE # 82. EMIS.ANG			
CAN-NAD-= 18-685 4	1.21# 73 *** *** 1341U7 EU.61# SHING# 38. PTHERN PART OF LAC 93 H.H	PHASE= #2. EHIS.ANG	60MH B&W → NONE . ■ 7. CAM+RAD+#	131K 1637509 131 1870+Z KM+ SUN	6.7 t3 -,** AZM= 83.9
CAN+NAD+= 17+365 4	1.UHW 73 ••° •••• 134131 1U.49W 5WING= 27. ПНЕНИ РАНТ OF LAC 93 М.Н	PHASE # 82. EHIS+ANG			
LAN.NAD. = 17.355 4	1.U9N 73 *** *** 134131 PU-48h Shing≈ 27. Lihern Part üf Lac 93 m.H	PHASE= 82. EHIS:ANG	BOMM BEM — NONE •= 6• CAM•RAD•=	127K 15875n0 121 1866+2 KM+ SUN	6.0 1352 AZM# 84.2
CAM+44D+# 16+U75 4	P. 97n 73 ••• ••• 134154 10.37h	PHASE= 82. EMIS.ANG	.= 6. CAH.RAD.=	1863+2 KM+ SUN	
CAH+NAU+# 16+475 4	7.97# 73 *** *** 134154 10.36# Sminum 15. DF LAC 93 H.HUNORGASSEN	PHASE= 82. EHIS.ANG	.= 6. CAH+RA⊕.=	1863.2 KH. SUN	
CAM=HAD+# 14-795 4	7.87# 73 04° 40° 134217 10.26W SWING# 2. UF LAC 75 LETHONHE,FLAHST	PHASE - BZ. EHIS.ANO	am 6. CAMERADom	1861+2 KH+ SUN	

TOTAL PHOTOS IN THIS GROUP # 28

THESE IND SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS, \$ # ALMOST UNUSABLE PHOTOS,

IILI ANGLES : AZIMUTH OF DIRECTION OF TILTIAZ) & VERTICAL TO CAMERA AXIS

(+),(\*)),(\*), ORIO) # NO INFO | # APPROXIMATELY | NEXT TO MAGN, B#HRACKET | MOUNTED; G# CAM. ON GROUND

CAMERA\*LENS AS FULLOWS: | Sh.A. # SUPER NIDE ANGLE LENS; EKTR#EKTAR 2.8 LENS;

HSB# HASSELBLAD: | MAUN# HAURER: ZP,ZB,ZS # ZEISS LENS(PLANAR,BIOGEN,SONAR); | FOCAL LENGTH(MM) & HAX.F-OPENING

10# AS EXPOS SPEED # 1/1000 (OH \*\* TWO ZEHOS)

FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF I/XXX ON ORIGINES. AT PP TF ALT NOT O+O

MIS MAG FR.PHUID PHIN.PT. URB GE 1 M-DA-YR GMT CAMERA-LENS OR SION HOLL OR LAT. FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. TIMES-HR M SEC SENSOR MAIN AND FILTER PRIN. AZ ANG. ANG. LUNG TUDE ( = LSTIMATED ) TYPE 4 M=N+HI PT. FR. LAP K=KH. VERT 8. 8

- L 4 2 109 13-79N 3-58N 20 000 0000 174732 5-18-67 LUNAR ORB LO-FEBOMM R6N NONE 2693K 336625NO 267 103 21 -067

  CAM-NAD-M 13-89N 1048N SWINGE 82. PHASEM 660 EMIS-ANGOM 30. CAM-RADOM 443202 KH0 SUN AZME 9407

  LAC 59 MOVAPORUM, HYGINUS : N>1/2 HOUN SPHERE : LAC 12 PLATO, ALPINE VAL. 6 LAC 61 TARUNTIUS. LY
- L 4 | 112 42.585 1.35% 21 000 0000 044650 5-19-67 LUNAR ORB H1. 610MM 86% NONE 7986K 4895082 95 4.6 20 -.00

  CAM.NAD.\* 12.265 12.09% SWINGE 294. PHASE 81. EMIS.ANG.= 13. CAM.RAD.# 4725.2 KM. SUN AZME 69.7

  LAC 112 TYCHU,STOFLER : LAC 113 MAUROLYCUS,RAB.LEVI : LAC 126 CLAVIUS,MAGINUS 6 LAC 127 HOMMEL,VLAC

- L 4 1 125 14.895 22.97W 23 000 000 052313 5-20-67 LUNAR ORB HI. 610MM B6K NONE 2717K 4454098 170 03 19 -,44

  LAMONADON 14.4US 23.06% SWINGE 356% PHASEM 71% ENISWANGAM 10 CAMORADON 445602 KM. SUN AZMO 84.02

  MESIEKN PART OF LAC 76 RIPHAEUS HI,FRAM MAURO : CENTRAL PART OF LAC 94 PITATUS,M. 6 S. W. PART OF LAC 58 COPERNICUS,R

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR AND FILTER TUDE PRIN. AZ ANG, ANG, FWD. GET GMT H-DA-YR MIS MAG FR.PHUTO PRIN.PT. URB SENSOR LAP FR. TIMES-HR M SEC H=N+HI PT. DR LAT. H SION RULL TYPE 8. 8 (i=ESTIMATED) VERT K=KH+ LUNG. MAIN - NONE 2999K 4916393 52 5+0 20 -+\*\*

- L 4 L L36 42.655 27.40W 25 ... soo 245435 5-21-67 LUNAR ORG HI. 610MM HOW NONE 3003K 4922951 97 4.8 19 -.. L 4 L L36 42.655 27.40W 25 ... soo 245435 5-21-67 LUNAR ORG HI. 610MM HOW - NONE 3003K 4922951 97 4.8 19 -.. CAM.NAD. 47.165 38.840 SWING= 295. PHASE= 83. EM15.ANG.= 13. CAM.RAD.= 4742.2 KM. SUN AZME 70.3 CAM.NAD. 47.165 38.840 SWING= 295. PHASE= 83. EM15.ANG.= 13. CAM.RAD.= 4742.2 KM. SUN AZME 70.3 E LAC 94 PITATUS,M.NUB LAC 111 OILHELM.E : LAC 125 SCHILLER. LAC 126 CLAVIUS,M ; LAC 93 M.HUMOR..GASSENDI 4455.720 119 -.7 19 -.. 48
- L 4 1 137 14.985 35.28W 25 ... 640 052651 5-21-67 LUNAR ORB HI. 610HH 86W NONE 2718K 445573R 119 .7 19 -.48

  CAM.NAD.= 14.4U5 36.33W SWING= 3U5. PHASE= 73. EMIS.ANG.= 2. CAM.RAD.= 4457.2 KM. SUN AZHE 84.1

  EASTERN PART UF LAC 75 LETRONNE.F I EASTERN PART OF LAC 93 M.HUMOR.,GASSENDI & LAC 94 PITATUS.M.NURIUM
- EASTERN THREE TO BE STATE OF THE STATE OF TH
- L 4 2 158 42.00N 47.66W 28 ... 183333 5-22-67 LUNAR ORB LO.F. #80MM B6W NONE 2866K 35825000 106 1.7 20 -...

  CAH.NAD. # 42.85N 51.22W SWING# 271: PHASE# 75: EHIS.ANG.# 4. CAM.RAD. # 4605.2 KH. SUN AZH#107.7

  LAC 23 RUMKER, SHARP ; \$\text{Q}\$1/2 MUON SPHERE ; LAC 73 RICCIOLI. NE. ORIENTAL 6 LAC 1 N. POLE NEARS1
- LAC 23 ROUGERTSIANS

  L 4 2 162 13-23N 62-18W 29 \*\*\* \*\*\* 0602U8 5"23"67 LUNAR ORB LU.F#80MM 86W "NONE 2470K 333750ND 243 1+D 17 ".78

  CAM-RAD-# 13-73N 60-75W SWING# 57\* PHASE# 71\* EMIS+ANG\*# 3\* CAM-RAD\*# 4409\*2 KM\* SUN AZM# 93\*4

  CAM-RAD-# 13-73N 60-75W SWING# 57\* PHASE# 71\* EMIS+ANG\*# 3\* CAM-RAD\*# 4409\*2 KM\* SUN AZM# 93\*4

  LAC 56 HEVELIUS-R : W>1/2 HOUN SPHERE; LAC 109 PIAZZI.V\* : LAC 21 N.GERARD\*#800LE

TOTAL PHOTOS IN THIS GROUP # 17

ALTE SCALE AT TILT SUN SIDE, FILH-EXPOSURE CAMERA-LENS OR GET GHT H-DA-YH MIS MAG FR. PHOTO PRIN. PT. ORB PRIN. AZ ANG. ANG. FAD. TUFF AND FILTER TIMES-HR M SEC SFNSOR יות וגו STON HOLL LAP FR. P.T. TYPE Man. wi (TatSIIMATED) MAIN LUNG. VERT 8 · 8 K=KM.

- L 4 Z 90+ 13+75N 15+87E 17 ++\* ++\* 054135 5-17-67 LUNAR ORB LU-F=80MM 868 NONE 2711K 33887500 267 1+6 22 --,7

  CAM+NAD+\* 13+89N 16+39E SWING= 82+ PHASE= 64+ EMIS-ANG+\* 4+ CAM+RAD+\* 4450+2 KM+ SUN AZM\* 95+0

  LAC 66 J-CAEDAR-SABINE, JANSEN 1 W>1/2 MOON SPHERE 1 LAC 26 EUDOXUS-BU 1 LAC 95 PURBACH+ARZACHEL & LAC 97 FRACASTORI
- L 4 ] 95 42×345 18×70E 18 \*\*\* \*\*\*\* 164U33 5=17=67 LUNAR OHR H1\* 610HH B6W NONE 2976K 4R786R9 95 4\*7 22 --\*\*\*

  CAM\*NRD\*= 42×275 7\*64E SWING\* 294\* 'HASE= 80\* EM[5\*ANG\*\* 13\* CAM\*RAD\*\* 4715\*2 KM\* SUN AZM\* 67\*9

  MESTERN PART OF LAC 113 HAURULYCUS\*RAB\*LEVI ; LAC 127 HOMMEL\*VL & LAC 128 H1ELA\*\*ATT
- L 4 | 76 | 15-185 | 10-67E | 18 +0+ +0+ | 171241 | 5-17-67 | LUNAP ORB HI 610MM R&+ NONE 2722K | 4462295 | 138 -6 22 -446 CAM-NAD-= 14-455 | 9-99E | SWING= 324+ PHASE= 69+ EMIS+ANG+= 2+ CAM-RAD+= 4461+2 KH+ SUN AZH= 83+2 LAC 78 | THEOPHILUS | LAC 77 | PTOLMAEUS+ | LAC 95 | PURBACH+AR | LAC 96 | ALTAI | SCARP+GEBER | & LAC 59 | M+VAPORUM+HYG
- L 4 I IUI I5-195 3-83E 19 \*\*\* \*\*\* U51444 5=18=67 LUNAR ORB HI; 61BMM 86% NONE 2720K 4459016 150 45 21 -- 45 Can-had = 14-455 3-38E Swings 336+ Phase 69. Ehis-ang = 1. Cam-rad = 4459-2 km Sun a7m 83-4 Lasilhi Pari uf lac 77 PTULMAEUS, : Lastern Part uf lac 95 Purbach, ar ; Lac 59 M-Vaporum, hyginus & lac 96 altai scarp, g
- L 4 I 108 14-265 2-368 20 \*\*\* \*\*\* 171651 5-18-67 LUNAR ORB HI: 610MM B6% NONE 2719K 4457377 77 \*5 21 --43

  Can-Hau-= 14-455 3-17% Saing= 262\* Phase= 7D\* Emis\*ang\*\* I\* Can Rad\*\* 4458\*2 km\* Sun azm\* 83\*8

  Central Part of Lac 77 Ptolmaeus\*Klein : Central Part of Lac 95 Purbach\*\*\* 6 S. #\* Part of Lac 59 M\*Vaporum\*\*HY
- L 4 1 112 42=585 1-35# 21 \*\*\* \*\*\* 044650 5-19-67 LUNAR ORB HI. 610HH H&# \*\* NONE 2986K 4895082 95 4.6 20 --.\*\*

  CAM-HAD-= 42-265 12-09# SWING= 294. PHASE= 81. EH15.ANG.= 13. CAM-RAD-= 4725-2 KM- SUN A7H= 69.2

  LAC 112 TYCHU.STOFLER ; LAC 113 MAUROLYCUS.RAB.LEV1 ; LAC 126 CLAVIUS.HAGINUS & LAC 127 HOMMEL.VLAC
- L 4 I II3 IM-645 9-51M ZI +++ +++ 051900 5-19-67 LUNAR ORB HI- 610MM B6W MONE 271BK 445573B 123 +Z ZO -++47

  CAM-HAD-- IM-455 9-81B SWING= 31B+ PHASE= 70+ EMIS-ANG+- I++ CAM-RAD+- 4457+2 KM+ SUN AZH+- B3+9

  LAC 77 PIULMALUS+ I LAC 76 RIPHAEUS M; LAC 95 PUNBACH+AR; LAC 94 PITATUS+M+NUBIUM & LAC 58 COPERNICUS+RE

atS	MAG	FR.PHUT	O PRIN.PT. OF	et is	GE <sup>T</sup> GMT	M-DA-YR	CAMERA-LENS OR	FILM-EXPOSURE	ALTI SCALE A	t 1	1 E T	SUN S	IDF,
SIUN	KULL	OH	LAT.	;	TIMES-HR M SEC		SENSOR	AND FILTER	TUDE PRIN.	, A Z	Z ANG.	ANG	FWD.
Ħ	2	HAIN	LUNG.		( = ESTIMATED)		TYPE		M⇒N•M1 PT.	,	FR.		LAP
		Ħ							X=KH•		VERT		g , g

- L 4 2 133 18+74N 29+69W 24 +++ +++ 175540 5-20-67 LUNAR DRB LO+F#8DHH B&W --- NONE 2673K 33412500 340 3+3 19 -+20 CAM+NAD++ 13+91H 27+86W 5hing= 156+ Phase= 68+ Emis-ang+= 8+ CAM+RAD++ 4412+2 km+ SUN AZM+= 95+9 LAC 4U TIMUCHAHIS+LAMBERT | P>1/2 MOON SPHEME | LAC 43 M+HUMOR++GASSFNDI & LAC 2 ANAXIMENES+PA

TOTAL PHOTOS IN THIS GROUP = 11

MIS MAG FR. PHUTO PRIN. PT. URB GET GMT H-DA-YR CAMERA-LENS OR 71LH≕EXPO5URE ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. PND. HAIN LUNG. ( =ESTIMATED) TYPE MENOM! PT. FR. LAP K=KM. VERT

L 4 2 85% 13+00N 23+94E 16 +++ =+++ 17395D 5-16-67 LUNAR ORB LO-F=80MM B&W - NONE 2717K 3396250D 23D +9 24 -,27

CAN+NAD+= 13+89N 25+04E SWING= 44+ PHASE= 65 EHIS+ANG+= 2+ CAM+RAD+= 4454-2 KM+ SUN AZM= 95+2

ULGRADED NEGATIVE 1 LAC 60 J-CAESAK+SABINE+JANSEN 1 LAC 78 THEOPHILUS+KANT & LAC 79 COLOHAD+NE+M

L 4 1 96 15-185 10-67E 18 \*\*\* \*\*\* 171241 5-17-67 LUNAR ORB HI. 610HH B<sup>E</sup>W - NONE 2722K 4467295 138 .6 22 --46 CAM-HAD-# 17-455 9-99E SKING# 324+ PHASE# 69+ EMIS-ANG-# Z- CAM-RAD-# 4461-2 KM- SUN AZH# 83-2 LAC 78 THEUPHILUS 1 LAC 77 PTULMAEUS- : LAC 95 PURBACH-AR : LAC 96 ALTAI SCARP-GEBER & LAC 59 M-VAPORUM-HYG

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MIS MAG SION ROLL # #		PRIN.PT. DRB Lai. # Lung.	GET GMT TIMES-HR M SEC (I=ESTIMATED)	H-DA-FR	CAMERA-LENS OR Sensor Type	FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. MmN.M1 PT. K#KM.	TILT SUNS AZ ANG. ANG. FR. VERT	
-----------------------------	--	---------------------------------	--	---------	----------------------------------	-----------------------------	--	--	--

- L 4 2 114 13-47N 10-97N 21 ++4 ++4 ++4 054938 5\*19-67 LUNAR ORB LO-F=80HH B6W NONE 2687K 3358750D 26L 1+8 19 -+64 CAM+NAD+= 13-89N 8+199N SWING= 77\* PHASE= 66\* EMIS\*ANG\*= 5\* CAM\*RAD\*= 4426\*2 KM\* 54N A7M\* 94\*2 LAC 58 COPERNICUS, REINHOLD ; W>1/2 MOUN SPHERE ; LAC 111 WILHELM, E ; LAC 12 PLATO, ALP ; LAC 26 EUDOX & LAC 96 ALTAI
- L 4 2 121 13-81N 16-888 22 \*\*\* \*\*\* 175143 5-19-67 LUNAR URB LO-F#888M B&W NONE 2482K 33525880 268 1-3 28 --66

  CAM-NAD-# 13-87N 14-69W SWING# BJ. PHASE= 67. EMIS-ANG-# 3. CAM-RAD-# 4421-2 KM. SUN AZM# 94-4

  LAC 58 CUPERNICUS, HEINHULD : W>1/2 HOUN SPHERE ; LAC 111 WILHELM\_E ; LAC 96 ALTAI SCA ; LAC 11 J. HER & LAC 27 GEMIN

- L 5 2 84 14.945 13.90E 42 \*\*\* \*\*\* 110058 8=13=67 LUNAR DRB LO.F#ROHM 86W = NONE 115K 143750D 223 2.5 17 -.\*\*

  CAM-NAD-# 14.825 14.82E SWING= 129. PHASE# 71. EMIS.ANG.# 3. CAM-RAD-# 1854.2 KM. SUN AZM# 83.7

  5. 0. PART OF LAC 78 THEOPHILUS.KANT 6 N. W. PART OF LAC 94 ALTAI SCARP.GEBER

TOTAL PHOTUS IN THIS GROUP # 17

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE GET GMT M-DA-YR CAMERA-LENS OR MIS MAG FR.PHUTO PRIN.PT. URB AND FILTER TUDE PRING AZ ANG. FAD. TIMES-HR M SEC SENSOR SION ROLL OR LAT. HENEM! PT. FR. TYPE ( = ESTIMATED) MAIN LUNG. VERT . . . K=KM.

- L 3 & 78 10.275 20.51E 58 000 0000 104548 2-17-67 LUNAR ORB LO.F=80MM 86W NONE 57K 712500 180 68.6 30 --.00 Cam.Nad.m 4.745 26.54E Swingm 349. Phasem 78. Emis.Ang.m 74. Cam.Rad.m 1796.2 km. Sun azm 85.7 Eastern Part of Lac 78 Theophilus.kant I S. W. Part of Lac 79 Colombo.ne 6 N. W. Part of Lac 97 Fracastorius
- L 4 1 59 41-755 55-05E 12 \*\*\* \*\*\* 163122 5\*14-67 LUNAR DRB HI 610MM B6W \*\* NONE 2975K 4877049 89 3\*6 22 \*\*\*\*

  CAM-NAD-\* 42-115 46-79E SWING= 287. PHASE= 78. EMIS-ANG.\* 10. CAM-PAD-\* 4714-2 KM. SUN AZM. 68.5

  LAC 114 KHLIA-JA : LAC I15 FURNERIUS : LAC 128 BIELA.NAT : LAC 129 M.AUSTRALE.LYOT 6 LAC 98 PETAVIUS.HOLD

- L 4 1 72 15+775 37+86E 14 \*\*\* \*\*\* 170548 5=15=67 LUNAR ORB HI+ 610MM B6W NONE 2732K 44786R9 131 1+2 24 -+47

  CAH+NAD+= 14+505 36+35E SWING= 316+ PHASE= 68+ EHIS+ANG== 3+ CAH+RAD+= 4471+2 KM+ SUN AZH= 82+2

  WESTERN PART OF LAC 79 COLONBO,NE : CENTRAL PART OF LAC 97 FRACASTORIUS+S+NECTAR 6 LAC 61 TARUNTIUS+LYELL

		u PRIN.PT, ORB	GEI GHT	M-DA-YR	CAMERA-LENS OR	F1LH-EXPOSURE	ALTE SCALE AT	TILI SUNS	IDE.
а в 210и чогі	NIAM H	LAI• # UNG•	TIMES-HR M SEC (F#ESTIMATED)		SENSOR TYPE	AND FILTER	TUDE PRIN. HeN.MI PT. KeKM.	AZ ANG. ANG. FR. VERT	FWD. LAP S. S

- L 4 2 85% 13-00N 23-94E 16 800 0000 173950 5-16-67 LUNAR ORB LOFEBOMM 86W NONE 2717K 33962500 23D .9 24 -.27

  CAN-HAD-= 13-89N 25-04E SWING= 44. PHASE= 55. EHIS-ANG.= 2. CAH-RAD-= 4456-2 KH. 5UN AZM= 95.2

  DEGRADED NEGATIVE : LAC 60 J-CAESAR-SABINE, JANSEN : LAC 78 THEOPHILUS, KANT & LAC 79 COLOMBO, NE. H

- L 5 2 54 27-725 27-09E 30 \*\*\* \*\*\* 204537 8-11-67 LUNAR URB LU F#80MM RGW NONE 133K 1662500 277 57-8 10 --.\*\*

  CAM-HAD-# 22-615 34-26E Shing# 111- PHASE# 33. EMIS-ANG.# 66. CAM-RAD-# 1872-2 KM- SUN AZM# B2-8

  S. L. PARI JF LAC 96 ALTAI SCAR; S. W. PART OF LAC 97 FRACASTORIUS,5-NECTAR 6 LAC 113 MAUROLYCUS,RAB-LEVI

TUTAL PHOTOS IN THIS GROUP # 17

IHESE IND SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • \*\* DEGRADED PHOTOS, \*\* ALMOST UNUSABLE PHOTOS,

TIET ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-),(\*),(), ORIO) \*\* NO INFO \*\* APPROXIMATELY NEXT TO MAGN, B=BRACKET MOUNTED; G\*\* CAM\*\* ON GROUND

CAMERA\*-LENS AS FOLLOWS: SW\*A\* \*\* SUPER WIDE ANGLE LENS; EKTR=EKTAR Z\*\* LENS;

HSB= NASSELBLAD: MAUNH MAUHER: ZP,ZH,ZS \*\* TEISS LENS; PLANAR, BIOGEN, SDNAR); FOCAL LENGTH(MM) & MAX\*,F=OPENING

10\*\* AS EXPOS SPEED \*\* 1/1000 (OR \*\*\* TWO ZEROS)

FUR LUNAR ORBITER K AFIER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY 10 FIRST DATA LINE OF EACH PHOTO: SCALE 15 THE XXX OF 1/XXX ON ORIG\*NEG\*\* AT PP 1F ALT NOT 0\*\*0

ALTE SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS DR GET GHT M-DA-YR HIS HAG FR.PHUTO PRIN.PT. URB AND FILTER TUDE PRIN. AT ANG. ANG. FOO. SENSUR TIMES-HR M SEC MEN.MI PT. FR. LAP SIUN HULL TYPE ( #ESTIMATED) LUNG. VERT MALH K = KM.

- L 4 1 38 42.645 77.77E 9 00° 0000 042846 5=13-67 LUNAR ORB H1. 610MM B6W NONE 2982K 4888575 98 4.8 24 --.00 Canonad.= 42.028 66.45E Swing= 295. Phase= 78. Emis.ang.= 13. Cam.rad.= 4721.2 km. Sun a7m. 64.8 Lastern Part of Lac 115 furnerius: 1 Lac 129 m.australe 1 Lac 116 m.austral 1 Lac 99 humbolt.gibbs 6 Lac 98 petavius.
- L 4 1 45° 42°425 71°80E 10 °°° °°°° 162932 5°13°67 LUNAR ORB HI° 610MM R6W NONE 2979K 4R83607 96 5°1 25 °°°° Cam-Nado» 42°045 59°88E Shing= 293° Phase» 74° Emis°ang°¤ 14° Cam-Rado» 4718°2 Km° Sun Azm¤ 64°7 Lac 115 fuknerius : Lac 129 M°australe Lyut & S° E° Part of Lac 98 Petavius°HOLDEN

N. W. PART OF LAC 98 PETAVIUS. HULDEN

5106	I HULL OK LAT					FILM=EXPUSURE AND FILTER	TUDE PRIN. M=N.MI PT.	T I L T SUN SIDE, AZ ANG, ANG, FWD FR. LAI VERT 8. 1
_		112.70E	SHING= 282.	PHASE= 107.	EHIS.ANG.# 3.	3. CAH-RAD.=	7226.2 KH.	290 746 14** SUN AZM#259.4 1 N.POLE NEARSID
-	2 1915 38-29N CAM-NAD+= 33-95H GHAUEU NEGAFIVE :	86 + D5E	Swing 282.	PHASE # 107.	EMIS ANG . 3	4. CAMARAD.	7242+2 KM+	288
įS	1 33= 25.475 Lam.Had.= 25.645	6U+19E		PHASER 75.				135 5+4 18 -+** SUN AZM# 79+1
ι 5		60 • 19E		PHASE = 75.		B&W - NONE 6. CAM•RAD•*		136 5+3 18 -,* SUN AZM# 79+1
L 5		6U + 23E		PHASE* 75.		B&W - NONE 6. CAH•RAD•≡		132 5.2 18 SUN AZM# 79.2
L 5	CAM+HAD+# 25+275	60 - 23E		PHASE# 75.		B&W - NONE 5. CAM•RAD•#		133 5+1 18 -+8 5UN AZM# 79+2
լ 5	CAM+NAD+= 24.925	64+27E		PHASE# 75.		BE# " NONE BE# " NONE		179 5+0 18 SUN AZM= 79+3
į 5	CAM+NAD+= 24+915	60 + 27 E		PHASE - 75.			143K 1787500 1882+2 km+	129 4.9 18A. SUN AZM# 79.3
<b>L</b> 5	1 36+ 24+745 CAM+HAD+= 24+565	60 - 30E		PHASE # 75.				125 4+8 18 SUN AZH# 79+4
ί 5	Z 36 24.785 CAM.HAD.= 24.565	6U+31E		PHASE# 75.				126 4+7 18 -+8 SUN AZM= 79+4
į S		57+39E		PHASE= 67.		A6# = N∩NE 4. CAM•RAD•#		246 3.6 19 SUN AZM= 81.5
լ 5	2 J7 18.945 CAM.NAD.= 18.845					B&W = NONE	125K 15625n0	247 3+7 19+ SUN AZH= 81+5

HAG Holl #	 PHIN.PT. U LAT. LONG.	IRB GET GHT # TIMES-HR M SEC (!=ESTIMATEU)	M-DA-YR CAMERA-LENS SENSOR TYPE	OR FILM-EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. M=N+HI PT. K#KN.	TILT SUN S A7 ANG. ANG. FR. VERT	•
	 	AD 125 186	G-16 day disam offer the	4.1.75			

TOTAL PHOTOS IN THIS GROUP = 23

- NONE 2745K 4500000 135

SUN AZMe AZ.2

& LAC AZ H.UNDARUM.S.C

CAM+HAD+= 14+395 69+36E

INCSENSES INCOMPRES NEXT TO MAIN OR PHOTO NUMBER MEAN: \* \*\* DEGRADED PHOTOS. \*\* ALHOST UNISABLE PHOTOS.

IILI ANGLES: AZIMUTH OF DIRECTION OF ILLICAZI & VEHTICAL TO CAMERA AXIS

(-1.(+).(-).(-). OH(0) \*\* NO INFO \*\* WEAPPROXIMATELY NEXT TO MAGE. B=BRACKET HOUNTED! G\*\* CAM. ON GROUND

CAMERA-LENS AS FOLLOWS: SW.A. \*\* SUPER WIDE ANGLE LENS! EKTREKTAR 2.8 LENS:

HSB\*\* HASSEBBLAD! MAURE HAUREN: ZP.ZB.ZS \*\* ZEISS LENS!PLANAR, BIOGEN, SONAR)! FOCAL LENGTH(HM) & MAX.F\*\* OPENING

10. AS EXPOS SPEED \*\* 1/1000 (GR \*\*\* TWO ZERUS)

FUR LONAR URBITER & AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1/XXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

MIS MAG FR,PHUTU PRIN.PT. URB GET GMT SIUN RULL OR LAT. # TIMES-HR M SEC # # MAIN LONG. (I=EST;HATED)	•	SENSOR	AND FILTER	TUDE PRIN. A7	ANG. ANG. FWD.
L 4 1 9 41+795 96+20E 6 *** *** 162638 CAM+HAD+= 42+U25 86+28E	PHA5E#	76. EMI5.ANG. = 12.	CAM . RAD . =	4728+2 KH+ 5U	N A7M= 65+1
L 4	PHASE =	76. EMIS.ANG. = 12.	CAM+RAD+=	4726+2 KM+ 5U	N AZH= 65+2
L 4 1 11 41.045 96.19E 6 16265 CAM.NAD. ** 41.745 86.32E 5wing= 285. Lac 116 M.AU.STAAL 1 Lac 99 HUMBULT.GI 1 LAC	PHASE=	76. EM15.ANG.= 12.	CAM#RAD##	4725+2 KH+ Still	N AZM# 65+4
C 4 1 12 40.675 96.18E 6 *** *** 16270 CAM:NAD:= 41.615 86.34E 5wing= 283. LAC 116 M.AUSTHAL   LAC 99 HUMBULT.61 ; LAC	PHASE=	76. EHIS.ANG.= 12.	CAM+RAD+#	4723+2 KH+ SU	N AZM# 65.6
₹ 4 1	PHA5E=	64. EMIS.ANG I.	CAM + RAD + =	4486+2 KM+ 5U	N AZM# Bl• Ŷ
L 4 1 33% 41.845 84.13E 8	PHASE =	77. EMIS.ANG.# 13.	CAH+RAD+=	4724+2 KM+ SU	N AZM= 64.9
€ 4       1       345       14.715       7e 79E       8 *** *** *** ** ** ** ** ** ** ** ** **	PHASE =	64. EMIS.ANG. 1.	CAM+RAD+=	4485+2 KH+ SU	N AZM= 82+1
L 4	PHASE.=	78. EHIS.ANG 13.	CAM+RAD+=	9721+2 KH+ SU	N AZM= 64+8

5wing= 320+ PHA5E= 65+ EM15+ANG+= 1+ CAM+RAD+= 4484+2 KM+

39 14-905 69-88E 9 \*\*\* \*\*\* 050052 5-13-67 LUNAR ORB HI- 610MM BOW

LAC BU LANGRENUS, : LAC BE ANSGARIUS, : LAC 98 PETAVIUS, H : LAC 99 HUMBULT, GIRRS

	RULL	•	PRIN.PT. Lat. Long.	# TIHES-HR H SEC	M-DA-YR CAMERA-LENS OR SENSOR TYPE	FILH-EXPOSURE AND FILTER	ALTI SCALF AT TUDE PRIN. M=N+NI PT. K=KM.	T I L T SUN AZ ANG. ANG. FR. VERT	
լ 4	i	45+ 42+4	25 71.60E	10 *** *** 162932	S-13-67 LUHAR ORB HI. 610MM	86W - NONF		7 96 5+1 25	

TUTAL PHOTOS IN THIS GROUP . 13

IHESE IND SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS \* \$ # ALMOST UNUSABLE PHOTOS \* TILL ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

[-],(+),(-),(-), OR(U) # NO INFO | W # APPROXIMATELY | NEXT TO MAGN, B#BRACKET HOUNTED; G# CAM, ON GROUND

LAMENA-LENS AS FOLLOWS: | SW.A. # SUPER WIDE ANGLE LENS; EKTQ#EKTAR 2.8 LENS;

HSB# HASSELBLAD: | MAUR# MAUREK; ZP.ZB,ZS | ZEISS LENS(PLANAR,BIOGEN.SONAR); FOCAL LENGTH(MH) & MAX.F-OPENING

LIU- AS EAPOS SPEED # 1/1000 (OR \*\* TWO ZEROS)

FUN LUNAR ORBITER K AFIER ALTITUDE EQUALS KILOHETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO; SCALE IS THE XXX OF 1/XXX ON ORIGINES, AT PP 1F ALT NOT 0.0

FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. MIS HAG FR.PHUID PRIN.PT. ORR GE I GMT M-DA-YR CARERA-LENS OR TIHES-HR M SEC SENSOR AND FILTER Tune PRIN. A7 ANG. ANG. FWD. SION ROLL UR LAT. H=N+HI PT. FR. I THE STIMATERS TYPE LAP MAIN LUNG K=KM. VERT 8. 8

- L I IU2 19-665 109-34E 60 \*\*\* \*\*\* 163624 8-23-66 LUNAR DRB MI 610MM NOW NONE 1198K 1963934 258 35-8 69 -- CAM-NAD-- 9-765 150-37E 5WING= 254- PHASE= 95- EMIS-ANG-- 81- CAM-RAD-- 2937-2 KM- SHN AZM-318-3 EASTERN PART OF LAC 82 SE-M-SHYTHI I LUNAR DISC FARSIDE I LAC 83 LANGEMAK I LAC 101 TSIOLKOVSKY & LAC 100 CURIE

- L 3 1 375 20.455 102.92E 47 \*\*\* \*\*\* 204953 2\*15-67 LUNAR ORB HI. AIDHM B&W NONE 396K 6491AO 230 5+2 71 -\*\*
  CAM.NAD.= 19.765 103.89E SWING# 149. PHASE# I5. EMIS.ANG.# 6. CAM.RAD.# 2135-2 KM. SUN AZM# 7\*4

  DEGHADED NEGATIVE & N. E. PART OF LAC IOU CURIF

- L 4 | 11 | 41+045 | 76+17E | 6 | 4\*\* 4\*\* 462658 | 5\*11-67 LUNAN ORB HI, 610MH B&# \*\* NOME 2986K 4895082 87 | 4\*3 25 | \*\*\* 4 | Cam-Had\*# 41\*745 | 86\*32E | 5%ING# 285\* | PHASE# 76\* EH15\*ANG\*# 12\* | CAM-RAD\*# 4725\*2 KM\* | SUN AZH# 65\*4 | LAC 116 H=AUSTRAL | LAC 99 HUNBOLT\*GI | LAC 100 CURIE | 1 LAC 129 M=AUSTRALE\*LYOT | 6 LAC 130 E\*MAR AUSTRA
- L 4 | 12 40+675 96+18E 6 \*\*\* \*\*\* 1627DB 5-11-67 LUNAR ORB HI+ 610MM 86% NONE 2984K 4991RO3 86 4\*3 25 +\*\*90 CAM+HAD\*\* 41+615 86+34E SWING\*\* 283\* PHASE\*\* 76\* ENIS\*ANG\*\* 12\* CAM\*RAD\*\*\* 4723\*2 KH\* SUN AZH\*\* 65\*6 LAC 136 M\*\*4U5IRAL; EAC 99 HUMBOLT\*GI / \*\*\* 100 CURIE ; EAC 129 M\*\*AU5TRALE\*LYOT & LAC 130 F\*\*HAR AU5TRA

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100

LAC LUO CURIE

ALTE SCALE AT TILT SUN SIDE. FILH-EXPOSURE GET GMT M-DA-YR CAMERA-LENS OR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MIS MAG FRIPHOTO PRINIPT. ORB SENSOR TIMES-HR M SEC M=N.HI PT. LAP FR. SION ROLL UR LAT. TYPE ( LeESTIMATED) 8. 9 LUNG. VERT MAIN

TOTAL PHOTOS IN THIS GROUP #

SE ALMOST UNUSABLE PHOTOS. . = DEGRADED PHOTOS. THESE TWO SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN! TILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) 6 VERTICAL TO CAMERA AXIS NEXT TO HAGE, BEBRACKET MOUNTED: G. CAM. ON GROUND W . APPROXIMATELY  $\{-\},\{+\},\{-\},\{-\},-\}$  OR(0) = NU INFO SW.A. . SUPER WIDE ANGLE LENS: EKTALEKTAR 2.8 LENS: CAMERA-LENS AS FULLOWS: HAURE MAURERS ZP.ZB.ZS = ZEISS LENSTPLANAR.BIOGEN.SONARST FOCAL LENGTHIMMS & HAX.F.OPENING HSB# HASSELBLAD; TO AS EXPOS SPEED # 1/1000 (OR ## TWO ZEROS) FUR LUNAR URBITER & AFTER ALTITUDE EQUALS KILOHETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF LXXX ON ORIGINES. AT PP IF ALT NOT O.O.

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE HIS HAG FR. PHUTU PRIN. PT. URB GE T GHT CAMERA-LENS OR PRIN. AZ ANG. ANG. FND. SENSOR AND FILTER TUDE IIMES-HR M SEC SION ROLL UH LAT. LAP M#N.MI PT. FR. TYPE MAIN LUNG. | imestimated) VERT 8. 8 K=KM+

- NONE 1198K 1963934 258 35.8 69 -... € 1 1 102 14-685 164-34E 60 \*\*\* \*\*\* 163624 8-23-66 LUNAR ORB HI. 610MM B6W SUN AZH=318+3 PHASE= 95. EHIS.ANG.= 81. CAH.RAD. = 2937.2 KH. 5414G~ 254. CAM-NAU.= 9-765 150+37E & LAC 100 CURIE EASTERN PART UP LAC 62 SE.M.SMYTHI : LUMAR DISC FARSIDE : LAC 83 LANGEMAK : LAC 101 TSIOLKOVSKY
- NONE 1198K 14975000 ZSA 35+7 69 L | 2 | 102 | 14.685 | 104.35E | 60 ... ... 163624 | 8-23-66 LUNAR ORB LO.F.#8OHH BAW SUN AZH#318+3 2937.2 KH. CAM+RAD .= Y+765 15U+38E 561NG= 254. PHASE WS. EMIS.ANG. # 81. CAM+RAD+= & LAC 117 VAN DER WAAL LAC 82 SE.M. SMYTH : LUNAR DISC FARSID : LAC BOL TSIDEKOVS : LAC 83 LANGEMAK
- NONE 1581K 19767500 267 32.8 65 L 1 2 1170 5-215 95-31E 71 000 0000 071501 8-25-66 LUNAR ORB LO.F=80MM BOW CAH+RAD+# 3320+2 KH+ SUN A7H#284+7 PHASE= 115. EHIS+ANG+= 90+ Sw|NG= 265. LAH - NAD - = 6 - 475 152 - 84E & LAC && MENDELEEV PRIMAPIA IN SPACE : LUNAR DISC FARSID : LAC 101 TS10LKOVS : LAC 84 DELLINGER
- NONE 1328K 16400000 359 3+5 21 L 1 2 136 5.445 129.33E 77 ... ... 034836 B-26-66 LUMAR ORB LO.F=80MM R64 SUN AZHEZ73.7 CAM.RAD.= 3067.2 KH. PHASE TO EHIS ANG . 6. CAM-NAD. - 8.115 129.35E 5m1NG= 354. & LAC 65 GUYOT KING LAC 83 LANGEMAK : LAC 84 DELLINGER : LAC JUL TSIOLKOVS : LAC 102 GAGARIN.E.TSIOLKOVSKY
- NONE 1463K 2398361 182 12+7 20 1 3 1 121 24-155 126-59E 74 000 0000 1922UD 2-19-67 LUNAR ORB HI. 610HM 866 SUN AZH#277+5 CAM+RAD+# 3202+2 KM+ CAM.NAD. = 12.925 127.09E 5wing = 184. PHASE TO ENISANG = 24 1 5. E. PART OF LAC 83 LANGEMAK & N. E. PART OF LAC 117 VAN DER WAA EASTERN PART OF LAC TOT TSTOLKOVSKY
- NONE 1463K 18287500 181 12.8 20 L 3 2 121 24-265 126-68E 74 \*\*\* \*\*\* 1922GO 2-19-67 LUNAR ORB LO-F-BOHN R6W 3282+2 KM+ SUN AZM#277+4 CAM RAD . = 5wing= 184. PHASE 70. EMIS.ANG. = 24. CAM.NAD. = 12.925 127.09E & LAC 100 CURTE LAC 101 TSTULKUVS : WITH MUDNS SPHERE : LAC 83 LANGEHAK : LAC 84 DELLINGER
- NAME 3505K 43812500 92 2+4 9 6 ... ... | 154648 5-11-67 LUNAR ORH LO.F. 80MM R&W 8 70.495 91.37E ι 4 🔏 CAM+RAD+= 5294+2 KM+ SUN AZM= 61+9 PHASE 88. EMIS.ANG. 7. Shing= 259. CAM+HAD+= 78+915 76+55E & LAC 129 MAGUSTRALEAL LAC 139 HELMHULL, : WOINSPHERE : LUNAR S. HEMISPHE : LAC 142 ZEEMAN
- NONE 2989K 3736250U 91 4+2 25 9 41.795 96.20E 6 \*\*\* \*\*\* 162638 5-11-67 LUNAR ORB LO.F=80MM BOW ι 4 2 CAM+RAD+= 4728+2 KM+ SUN AZH= 65+1 PHASE 76. EMIS.ANG. 12. SMING= 289. LAM-HAD+= 42+025 86+28E 6 LAC A3 NEPER.SCHUBER LAC 116 M.AUSTRAL : W>1/2 HOUN SPHERE : LUHAR E. HEMISPHE : LAC 140 SCHRODINGER
- NONE 2987K 37337500 89 4+3 25 -.90 6 ... \*\*\* 162648 5-11-67 LUNAR ORB LO.F=80MM BGW 10 41+412 AP+50E L 4 2 SUN AZME 65+2 CAM . RAD . .. 4726.2 KM. PHASES 76. EHTS.ANG.S 12. 5 1116= 287. LAM-HAD = 41.885 86.30E & LAC BI ANSGARIUS.W.H LAC 116 H.AUSTRAL : W>1/2 NOON SPHERE : LUMAR E. HEMISPHE : LAC 140 SCHRODINGER

STUH HULL U	H LAT+ # T		SENSOR	AND FILTER T	LT1 SCALE AT TI	
a a hAi a	n FANG* i	##ESTIMATED)	TYPE		M=N=HI PT. K=KH.	
CAM+HAD+#	41+745 B6+32E	SWING 285. PHASE	LUNAR URB LU.F=80HM 85W = 76. EHIS-ANG.= 12. SPHE 1 LAC 140 SCHRODING	CAM+RAD+= 4	1725+2 KH+ SUN	AZM# 65.4
CAM+NAD	41.015 86.346	SWINS 283. PHASE	LUNAR ORB LO.F=80MM B&N = 76. EMIS.ANG.= 12. SPHE : LAC 140 SCHRODING	CAM+RAD+# 4	172"+2 KH+ SUN	AZH= 45+4
CAM.HAD.	13.89N 91.45E	SWING 104. PHASE	LUNAR JRB LO.F=80MM B&W = 60. EMIS-ANG.= 2. RIUS : LAC 80 LANGRENUS.	CAM+RAD+m 4	4478+2 KM+ SUN	AZM= 97+5
CAH.HAD.	14.19N 91.48E	SWING= 126. PHASE	LUNAR ORB LO.F. GOMM B&W = 60. EMIS.ANG.= Z. HERE : LAC BI ANGGARIUG.	CAM+RAD+= 4	1479+2 KH+ SUN	AZH= 98.0

TUTAL PHOTOS IN THIS GROUP = 13

HIS HAG FR. PHOTO PRIN. PT. URB GET GMT H\_DA\_YR CAMERA-LENS OR FILM\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. SIUN KULL UR LATe TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. (IELSTIMATED) TYPE H=N.MI PT. FR. LAP K\*KH. VERT 8. 8 L 1 2 136 5.405 129.33E 77 \*\*\* \*\*\* 034836 8-26-66 LUNAR ORB LO.F=BOHM BOW NONE 1328K 16600000 359 3+5 21 CAM . HAD . = 8.115 129.35F 5w1NG= 354. PHASE = 70. EMIS.ANG. = 6. CAMeRAD .= 3067+2 KH+ SUN A7H=273+7 LAC B3 LANGEMAK : LAC 84 DELLINGER : LAC 101 TSIOLKOVS : LAC 102 GAGARIN.E. TSIOLKOVSKY & LAC 65 GUYOT KING £ 2 2 75 21.215 157.99E 64 \*\*\* \*\*\* 101218 11-20-66 LUNAR URB LU.F. 80MH 86M NONE 1469K 18362500 181 12.9 19 CAM+HAD+= 4+745 158+42E SWING# 183. PHASE= 70. EMIS.ANG.= 24. CAM+RAD+# 3208+2 KH+ SUN AZH=277.5 LAC 103 PARACELSU : WOLVE MOON SPACEE ! LAC 85 KEELER I LAC 84 DELLINGER & LAC 86 DAEDALUS

TOTAL PHOTOS IN THIS GROUP = 3

CELECTOR CARROLL OF THE ORIGINAL PAGE IS POOF

ALTI SCALE AT TILT SUN SIDE. HIS MAG FR. PHOTO PRIN. PT. ORB SET GHI M-DA-YR CAMERA-LENS OR FILM-EXPOSURE AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SION RULL OR LATE TIMES-HR M SEC SENSOR ( TELSTIMATEU) TYPE MENAMI PT. FR. LAP MAIN LÜNG. VERT K#KM.

TOTAL PHOTOS IN THIS GROUP # 2

Service compressed grain response or grain or constantly control

MIS MAG FR.PHUID PRIN.PT. ORB GLI GMI H\_DA\_YR CAMERA-LENS OR FILH\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL UK LAT. # TIMES-HR M SEC SENSOR AND FILTER PRIN. AZ ANG. ANG. FWD. TUDE MAIN LUNG. ( = ESTIMATED) TYPE HeN.MI PT. FR. LAP K=KM. VERT 8. 8

- L 1 2 37 /•985 157•76W 39 ••\* ••• 145410 8-20-66 LUNAR ORB LO•F=80MM B6W NONE 1381K 17262500 72 2•7 15 -•90

  CAM•NAD•= 8+635 159•81W SWING= 68• PHASE= 70• EMIS•ANG•= 5• CAM•RAD•= 3120•2 KH• SUN AZM=273•8

  LAC 87 KORULEV•UD : LAC 86 DAEDALUS : LAC 104 AITKEN•OR : LAC 68 SHARUNOV 6 LAC 69 ENGLEHARDT

TOTAL PHOTOS IN THIS GROUP ...

ALTI SCALE AT TIL : SUN 510F. FILM-EXPOSURE GET GHT M-DA-YR CAMERA-LENS OR MIS MAG FR. PHOTO PRIN. PT. ORB AND FILTER TUDE PRIM. AZ ANG. ANG. FWD. SENSOR OR LAT. # TIMES-HR M SEC M=N.HI PT. FR. LAP TYPE LONG. ( I mESTIMATED) MAIN VERT 8. 8 K#KM. -- NnNE 1304κ 1630nαα0 225 1+6 22 --+\*\* E 1 2 28 10-235 153-78W 33 \*\*\* \*\*\* 170521 8-19-66 LUNAR ORB LO-F-BOMM BON CAM+RAD+# 3043+2 KH+ SUN AZH#275+8 SHING= 221. PHASE= 70. EMIS.ANG.= 3. CAM-HAD-= 9-395 152-92W & LAC 105 HOHOROVICIC LAC 87 KORULEV.DU I LAC 69 ENGLEHANDI I LAC 70 N.W. HERTZS I LAC 88 5.W. HERTZSPRUNG.PASCHEN - NONE 1799K 2129508 240 2+3 24 --\*\* 30 10-275 162-719 37 ... ... 073501 8-20-66 LUNAR ORB HI. 610HM B&W

L I 2 30 10-275 162-70W 37 \*\*\* \*\*\*\* 073501 8-20-66 LUNAR ORB LO-F=80MM B&W - NONE 1299K 16237500 240 2+3 24 --\*\*

CAM-NAD-= 9-415 161-18W SWING= 235+ PHASE= 70+ EMIS-ANG+= 4+ CAM-RAD-= 3038+2 KM+ SUN AZM=276+2

LAC B7 KURULEV-DU 1 LAC 185 MOHOROVIC ; LAC 186 MAH10TTE ; LAC 86 DAEDALUS & LAC 88 S+W-HERTZSPRU

LI 2 35 8-725 162-60W 39 \*\*\* \*\*\* 145201 8-20-66 LUNAR ORB LO-F=80MM 86W - HONE 1339K 16737500 343 \*4 20 --\*\*

CAM\*NAD\*\* 9-035 162-51W 5WING\*\* 338\* PHASE\*\* 70\* EMIS\*ANG\*\*\* 1\* CAM\*RAD\*\*\* 3778\*2 KM\* SUN AZM\*274\*8

LAC 87 KORULEV\*DO : LAC 70 N\*\*\*HER!ZS : LAC 88 5\*\*\*HERIZS : LAC 106 MAR10TTE & LAC 105 MOHOROVICIC

L 1 36 8.655 162.11% 39 \*\*\* \*\*\* 145214 8-20-66 LUNAR ORB HI. 610HM B&W - NONE 1344K 2203279 19 .5 20 -.90

CAM.HAD.= 8.995 162.23# SWING= 14. PHASE= 70. EMIS.ANG.= 1. CAM.PAD.= 3083.2 KM. SUN AZM=274.7

HESTERN PART OF LAC 87 KORULEV.DOPPLER & N. W. PART OF LAC 105 MOHOROVICIC

LI 2 36 8.655 162.10M 39 \*\*\* \*\*\* 145214 8\*20\*66 LUNAR ORB LO.F#80MM 86W \*\* NONE 1344K 16800000 20 .5 20 -.90
CAN.HAD.\* 8.995 162.23M SWING# 15. PHASE# 70. EMIS.ANG.# 1. CAR.RAD.# 3083\*2 KM. SUN AZM#274.7
LAC 87 KURULEV.DO; LAC 104 AIIKEN.OR; LAC 105 MOHOROVIC; LAC 106 MARIOTTE & LAC 86 DAEDALUS

L 1 2 37 7+985 157+76W 39 \*\*\* \*\*\* 145410 8-20-64 LUNAR ORB LO-F=80HH 86M - NONE 1381K 1726250B 72 2+7 15 -+90 CAM-HAD-= 8+635 159+81M SWING= 68+ PHASE= 70+ EMIS+ANG+= 5+ CAM-PAD+= 3120+2 KM+ SUN AZM=273+8 LAC 87 KORULEV+DU 1 LAC 86 DAEDALUS ; LAC 104 AITKEN,OR ; LAC 68 SHARONOV 6 LAC 69 ENGLEHARDT

L 1 38 7.705 157.27W 39 \*\*\* \*\*\* 145423 8-20-66 LUNAR ORB HI. 610HH B&W \*\* NONE 1385K 2270492 73 2.9 15 \*\*.90

CAM.HAD.\* 8.595 159.54% SWING= 68. PHASE= 70. EMIS.ANG.\* 5. CAM.RAD.\* 3124.2 KM. SUN AZH=273.7

EASTERN PART OF LAC 87 KOROLEV.DOPPLER : S. E. PART OF LAC 69 ENGLEHARDT & N. E. PART OF LAC 105 MOHOROVICIC

m	113	TIAG	FK FLHOID	PRINAPIA 1	OUB GEI	g m s	HENNE CAME	CHA-LENS UM	L 1f"u⇒EXLD3ckF	AETI DUALE AT	, [ [ . 34W 3	1 171. •
S	IUN	KULL	UK LA	LT.	# TIMES-HR	H SEC		SENSOR	AND FILTER	TUDE PRIN.	AZ ANG. ANG.	EWD.
	H	Ħ	MAIN	LUNG.	(i=ESTIH	ATEDI		TYPE		M=N.MI PT.	FR.	LAP
			Ħ							K#KH+	VERT	ዩ - 8
L	1	2	J9 0.495	149.05%	39 ••• •••	145801	8-20-66 LUNAR	ORB LO.F=80MM	gbw - None	1451g 18:375ng	77 7+3 7	-,9n
		CAM .	NAD .= 7.89	S 155 - 17 W	5minG≠	73.	PHASE = 70.	EMIS . ANG I	4. CAM+RAU+m	3190+2 KH+	SUN AZH#272+3	
	LAC	្ន មាន	5.W.HER125	I LAC B7	KOHOLEA DO :	LAC	59 ENGLEHARDT 1	LAC 70 N.W.H	LRTZSPRUNG.ARTEM	& LA	C 105 HOHOROVIC	Tc
L	. 1	2	40 6.449	148+73#	39 *** ***	145810	8-20-66 LUNAR	ORB LO.F.BOHM	Baw - NouE	1454K 18175000	77 7+5 6	90
		CAN	NAD .= 7.86	5 155.NOW	Sw1116=	73.	PHASE 70.	EMIS.ANG	4. CAMeRADes	3193+2 KH+	SUN AZM#272+2	
	Ł.A	88	5.W.HER125	1 LAC 87	KOROLEV.DO :	LAC	9 ENGLEHARDT 1	LAC 70 N.W.H	ERTZSPRUNG.ARTEH	& LA	C 105 HOHOROVIC	10

TOTAL PHOTOS IN THIS GROUP = 11

. . £

THESE INV SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: . . DEGRADED PHOTOS. . . ALMOST UNUSABLE PHOTOS. TILT ANGLES : AZIMUIH OF DIRECTION OF TILTIAZ: & VERTICAL TO CAMERA AXIS  $(-)_{+}(+)_{+}(-)_{+}$  OR(0) = NO INFO W = APPROXIMATELY NEXT TO MAGH, B=BRACKET HOUNTED; G= CAM, ON GROUND LAMERA-LENS AS FULLOWS: SW.A. - SUPER WIDE ANGLE LENS: EKTREEKTAR 2.8 LENS: HSB# HASSELBLAU: MAUR# HAURER: ZP.ZB.ZS # ZEISS LENSTPLANAR.BIOGEN.SONAR): FOCAL EFNGTH(MH) & HAX.F=OPENING TO AS EXPOS SPEED # 1/1000 FOR ## TWO ZERUS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMFTERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT D.O.

		• • • • • • • • • • • • • • • • • • •
MIS MAG FR.PHUIU PRIN.PT. URB GET GHT M-DA-YR CAMI	RA-LENS OR FILM-EXPUSURE	ALII SCALE AT I I L I SUN SIDE,
SION RULL OR LAT. # TIMES-HW M SEC # # MAIN LONG. (F=ESTIMATED)	TABE YOU FILIES	THE PRIME OF AN AND STREET
" " " LONG. (YEESIIMATED)	1115	X=KN. VERT S. 9
4		X=Kne veri ner
£ 1 2 28 10+235 153+78W 33 *** *** 170521 8-19-66 LUNAR	ORB LO.F. BOMM REW - NONE	1304k 16300000 225 1+6 22 -++4
CAM-HAD-= 9-395 152-92W SWING= 221. PHASE= 70.		
LAC 87 KURULEV.DU 1 LAC 69 ENGLEHANDT 1 LAC 70 N.N.HERIZS :		
t 1 2 30 10+275 162+70# 37 *** **** 073501 8-20-66 LUNAR	ORB LU-F-80MM B&W - NONE	1299K 162375n0 240 2+3 24 -,**
CAM+NAD+= Y+415 161+18W SWING= 235. PHASE= 70.	EMIS ANG .= 4. CAM . RAD . w	3738+2 KH+ SUN AZH=276+2
LAC 87 KOROLEV.DU ; LAC 105 HOHOROVIC ; LAC 106 MARIOTTE ;	LAC 86 DAEDALUS	& LAC 88 S.W.HERTZSPRU
E 1 2 35 8+725 162+60W 39 ++* +4++ 145201 8-20-66 LUNAR		1339K 167375ntt 343 -4 20 -+**
CAM-NAD-= Y-035 162-51W SWING= 338. PHASE= 70.		3078+2 KM+ SUN AyM=274+8
LAC 87 KURULEY, DU : LAC 70 N. W. HERIZS : LAC 88 5. W. HEHTZS :	LAC 106 HARIOTTE	& LAC 105 HOHOROVICIC
L 1 2 36 8.655 162-10W 39 145214 8-20-66 LUNAR		1344k 16800000 20 +5 20 +,90
CAM.NAD. # 8.995 162.23# SWING 15. PHASE 70.		3083-2 KM. SUN AZM#274-7
LAC 87 KORULEVIDO I LAC 104 ATTKENIUS I LAC 105 MOHOROVIC I	LAC 106 HARIOTTE	6 LAC 86 DAEDALUS
L 1 2 39 6.495 149.05W 39 *** **** 1458U1 8-20-66 LUNAR	ORH LO.F. SOMM BOW - NONE	1451K 18137500 77 7.3 790
CAM-HAD-= 7.695 155.17W SwinG= 73. PHASE= 70.	EHIS+ANG+# 14+ CAH+RAD+#	3190+2 KH+ SUN AZH+277+3
LAC 08 5.N.HERTZS I LAC 87 KUROLEV.DD I LAC 69 ENGLEHARDT I	LAC 70 N.W.HERTZSPHUNG.ARTEH	& LAC 105 HOHOMOVICIC
. 1 7 Hot A. 444 144 - 718 19 and same turinto periodic colors	200 to F-8040 540	1850v 10135000 33 3 5 4 - 9c
- C 1 2 4: 6-445 148-736 39 *** *** 145810 8-20-66 ΕυρΑΚ CAM-HAD-* 7-865 155-800W SWING= 73. PHASE* 70.	ONB LUST #BOMM BOW - NONE	1554K (8)/5000 // /+5 0 *+70
LAC 88 S. N. HERTZS ; LAC H7 KUROLEV.DO ; LAC 69 ENGLEHANDT ;		
THE ST THE TO THE ST ENGLERATED ! CAC ST ENGLERATED !	ERC AR MANAUSHI SALVONG BELLEU	8 CMC 102 HOMOWIALCIC
L 5 1 33 25-795 139-298 10 *** *** 024335 8-09-67 LUNAR	ORB HI . 610HH B&# - None	5n69k 8309836 261 9+6 7 -++
CAM+NAD+= 25.335 144.74W ShING= 92. PHASE= 124.	EMIS+ANG.= 41. CAM+RAD+#	6AG8+2 KH+ SUN AZH#274+9
LAC 106 NAKIUTTE 1 WIZ4 HUUNS SPHERE ; LAC 70 N.W.HERTAS 1		& LAC 121 APOLLO

- L 5 2 30 25-375 139-16m 10 \*\*\* \*\*\* 024335 8-09-67 LUNAR ORB LO-F-80HM R&M NAME 5969K 63362499 262 9.5 7 CAH-NAD-= 25-335 104-74# 5#1HG= 93. PHASE # 124. EHIS.ANG. # 41. SUN AZH=274+8 CAM . RAD . . 6988.2 KH.
  - LAC 106 MARTUTE : LUNAR DISC FARSID : LUNAR 6. HEMISTHE & LINB OR HORIZON
- 43 47.435 151.42W 25 ... ... 035821 8-11-67 UNAR ORB to.t. #ROMM REW NONE 1191K 14887500 252 20+2 \*\* CAM-NAD-# 44-905 L29-44W SWING 91. PHASE = 130. EHIS.ANG. = 36. CAM.RAD.m 2930 . 2 KM . SUN AZH#267+4 LAC 121 APULLU : WI/4 MOONS SPHERE : LIMB OR HORIZON : LAC 106 MARIOTTE & LAC 134 BOLTZHANN

LAC 106 MARIOTTE

PAGE 374

HIS MAG FREPHUTU PRINEPT. URB GET SHT H-DA-YR CAMERA-LENS OR Film-EXPOSURE ALTE SCALE AT TELE SUN SIDE. SION HULL OR LAT. # TIMES-HR H SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. HAIN LUNG. ( =ESTIMATED) TYPE MENAMI PT. FR. LAP K=KM. VERT 9 · 9

TOTAL PHOTOS IN THIS GROUP =

MIS MAG ER PHUTO PHIN PT. URB GET GHI M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. UR LAT. SION ROLL TIMES-HR M SEC SENSUH. AND FILTER TUDE PRIN. AT AUG. AUG. FWD. HAIN ( = ESTINATED) LUNG. TYPE MON. MI PT. FR. LAP K#KM. VERT 8. 9 1.5 1 22 26.965 112.55W 4 \*\*\* \*\*\* 603500 S-07-67 LUHAR ONB HI. SIOMM BOW Nont 5106K 8370492 259 9.7 6 CAN.HAD. # 45.655 77.04m Swillige 91. PHASE = 126. EMIS.ANG. = 41. CAM . RAD . . 6845.2 KH. SUN A7M=274.5 LAL 147 ELLERHAN 6 WIZE HOOKS SPHERE 42 26.535 112.40W 4 \*\*\* \*\*\* 003500 8-07-67 LUNAR ORB LO.F. 80MM 86# 15 2 NONE 5106K 63824999 240 9 4 6 5 CAN.NAD. = 25.655 77.09W Swings 92. PHASE= 126. EMIS+ANG.= 41. CAH . RAD . m 6845 . 2 KM . SIIN A7M=274.4 LAC 107 ELLERMAN : LUNAR DISC FARSID : LUNAR W. HEMISPHE & LIMB OR HORIZON 7 \*\*\* \*\*\* 014205 8-08-67 LUHAR ORB HI . 610MM B&W 26 27.055 125.06# NAME 5069K 8309836 258 CAM+NAD+# 25+625 90+85W SHING BY. PHASE = 125. EHIS.ANG. = 40. CAM+RAU+# 6808•2 KM• SUN \_ 7M=274.4 LAC 107 ELLERNAM : WI/4 MUONS SPHERE : LAC /U N.W.HENTZS : LAC /1 N.E.HERTZSPRUNG.GRIGG 6 LAC 134 HOLTZHANN L 5 4 26° 47.435 124.91W 7 \*\*\* \*\*\*\* 014205 8\*08-67 EUNAR ORB EO.F#80MM B&B NONE 5069K 63362499 255 9.4 5 SHINGE 90. CAH. HAD. # 25.625 90.85W PHASE # 125 EMIS.ANG. # 40. CAM.RAD. = 6808.2 KM. **SUN A7M#274.3** LAC 107 ELLERMAN I LUNAR DISC FARSIO : LUNAR W. HEMISPHE & LIMB OR HORIZON

TOTAL PHOTOS IN THIS GROUP # 4

HIS MAG Sion Roll # #		U PRIN.PT. URB Lai. # Lung.	GET GHI M-DA-YE TIMES+HR M SEC (I=ESTIMATED)	CAMERA-LENS OR SENSOR TYPE			TILT SUN SIDE. AZ ANG. ANG. FAD. FR. LAP VERT %. %
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- L 4 I 186 42-275 81-34W J3 \*\*\* \*\*\* 050123 5-25-67 LUNAR ORB H1- 610MM 86W NONE 3006K 4927869 95 4-7 16 +-\*\*

  CAM-NAD-= 41-965 92-48M SWING= 293. PHASE= 87. EMIS-ANG.= 13. CAM-PAD-= 4745-2 KM- SUN AZM= 74-2

  LAC 199 PIAZZI.V-BUUVARD I LAC 135 PINGRE N-HAUSEN : LAC 124 PHOCYLIDES 6 LAC 123 STEKLOV
- L 4 | 187 | 14-975 | 89-06W | 33 | 000 | 053334 | 5-25-67 | UNAR ORB HI 610HM | 864 | NONE 2723K | 4463934 | 145 | 05 14 | --43 CAM-NAD-= 14-365 | 89-48m | 5WING= 330 | PHASE= 77 | ENIS-ANG= | 0 | CAM-RAD-= | 4462-2 KM | SUN AZM= 85-4 LAC 73 | RICCIULI-NE-URIENTAL | 1 | LAC 90 | LOMELL | 1 | LAC 108 | M-DRIENISW 1/3 | 01 | 6 | LAC 91 | EICHSTADT-5E
- L 4 2 189 41+72N 79=99N 33 ++\* ++\*\* 063636 5=25=67 EUNAR DRB LO+F=80MM B&N NONE 2878K 35975000 110 1+9 18 --\*\*

  CAN+NAD== 42+88N 84+00W SAING= 273+ PHASE= 77+ EMIS+ANG+= 5+ CAM+RAD+= 4617+2 KM+ SUN AZM=106+1

  LAC 22 SE+GERAND+8UNSEN+HARDING | D>1/2 MOON SPHERE | LAC 108 M+ORIEN(SW 1/3 D) & LAC 1 N+POLE NEARSI
- L 4 1 194 42+975 86+50W 34 \*\*\* \*\*\* 170147 5-25-67 LUNAR ORB HI: 610HM B6W NOWE 3903K 4922951 180 5+3 16 -- 90

  CAM+HAD+\*\* 42+01S 99+09W SWING= 297\* PHASE\*\* 88\* EMIS+ANG\*\*\* 15\* CAM+RAD\*\*\* 4742+2 KM\* SUM AZM\*\* 73+3

  LAC 143 STEKLOV : LAC 189 PIAZZI; V-BOUVARD : LAC 185 PINGRE N+HAUSEN & LAC 124 PHOCYLIDES

- L 5 | 14 14-27N 162-39W 2 \*\*\* \*\*\* 133328 B-06-67 LUHAR ORB HI 610MM 86W \* NOME 5756K 9436066 279 7-6 3 ---90 CAM-NAD-= 11-14N 74-61B SHING= 92\* PHASE=122\* C-15\*ANG\*=35\* CAM-RAD\*= 7495\*2 KM\* SUN AZM=Z70\*B LAC 72 ELVEY NOBEL ; W174 HOOMS 5PHERE; LAC 20 COULOMB ; LAC 35 LANDAU 6 LAC 173 STEKLOV

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ALTI SCALE AT TILI SUN SIDE. FILH-EXPOSURE CAMERA-LENS OR AND FILTER TUDE PRIM. AZ ANG. ANG. PWD. GET GHT H-DA-TR MIS HAG FROPHUTU PHINOPTO URB SENSOR LAP TIMES-HR H SEC FR. MEN-HI PT. OR LAT+ # SION HOLE TYPE S . F VERT (GSTAMITES) K=KH. LUNG. MAIN Ħ - NONE 5757K 9437705 279 7+6 3 L 5 1 16 14-18h 102-37W 2 \*\*\* \*\*\* 133333 8-06-67 LUNAR ORB HI. 610HH 86W CAH+RAD+= 7496+2 KH+ SUN A7H=27g+8 PHASE= 122. EMIS.ANG.# 35. 6 LAC 123 STEKLOV Swing= 92. LAM-NAD-# 11-12N 74-50W : LAC 35 LANDAU LAC 72 ELVET NUBEL : WE/4 MUONS SPHERE : LAC 20 COULOMB - NONE 5757K 9437705 279 7.6 3 17 14-13N 102-36W 2 \*\*\* \*\*\* 133336 8-06-67 LUNAR ORB H: 610MM B6W 7496+2 KH= SUN AZM=270+9 CAM+RAD .= SWINGE 92. PHAS = 122. EHIS.ANG. = 35. & LAC 123 STEKLOV LAC 72 ELVEY NUBEL 1 WITH HOONS SPHERE 1 LAC 20 COULONS 1 LIC 35 LANDAU CAM-HAD-# 11-11N /4-60# - NONE 5758K 9439344 279 7+6 3 € 5 1 18 14-49N 102+35# 2 ++\* ++\*\* 133338 8-06-67 L\*\*NAR JRB H1. 610MM B6# 7497+2 KM+ SUN AZH#270+9 CAM . RAD . = PHASEE 1.7. EMIS.ANG. 35. & LAC 123 STEKLOY Sainge 92. CAM-HAD-# 11-1UN 74-60W LAC /2 ELVEY NUBEL : WI/4 MUONS SPHERE : LAC 20 COULUMB : LAC 35 LANDAU NONE 5758K 9439344 279 7+6 3 L 5 1 19 14-34N 102-34M 2 ... + ... 133341 8-06-67 LUNAR ORB HI. 610MM ALM CAH+RAD+# 7497+2 KH+ SIIN A7H+27D+9 PHASE= 122. EMIS.ANG. = 35. & LAC 123 STEKLOV SHING# 92. LAC 72 ELVEY HUBEL I WITH MUONS SPHERE I LAC 20 COULONS I LAC 35 LANDAU CAM-NAD-= 11-09N 74-60W - NONE 5758K 9439344 279 7.6 3 20 14-JUN 102-33# 2 \*\*\* \*\*\* 133344 8-06-67 LUNAR ORB HI: 610MM B&# CAH+RAD+# 7497+2 KH+ SUN AZH#270+9 PHASE # 122. EMIS.ANG. # 35. 6 LAC 123 STEKLOV 5w1NG= 92+ CAM-NAD = \$1.08N 74.60W LAC 35 LANDAU LAC 72 ELVEY NOBEL 1 - WI74 MOONS SPHERE : LAC 20 COULOMB - NONE 3341K 41762500 187 17.7 3 21 85.285 168.60% 3 ... ... 171706 8-06-67 LUNAR ORB EO.F.BOMH B6% CAM+RAD+= 5080+2 KH+ SUN AZH+336+7 PHASE # 119. EHIS.ANG. 57. LAC 190 SCHRODIN I LAC 123 STEK & LAC 108 M.OR SWING= 26. LAC 145 S.PULE FARSIDE LANUNDSEN >80 : LUNAR DISC FARSID : LUNAR S. HEMISPHE I CAM-HAD.# 50+725 69+07# - NONE 2551K 4181967 284 10+0 8 -... £ 5 1 25° 39.68N 129.77W 6 ... 6 ... 205019 8-07-67 LUNAR ORB H1. 610MM 86% CAM+RAD+= 4290+2 KM+ SUN AZM=258+8 PHASE# 107. EHIS.ANG.= 25. & TAC 35 LANDAU 5wing= 89. LAC 20 CUULUMB : WINT MOONS SPHERE : LAC 108 M. ORIEN(S : LAC 109 PIAZZI, V. BOUVARD CAM-NAD-# 58-75N 99-81W NONE 2558K 4177049 284 11+0 11 -+\*\* L 5 1 29 59+1211 147+18W 9 \*\*\* \*\*\* 215131 8-08-67 LUNAR ORB HI. 610HM 86W 4287+2 KM+ SUN A7H=254+7 CAM+RAD+# PHASE 107. EHIS.ANG. 28. CAN+NAD+= 59+08N 113+56N Swing= 90+ & LAC 20 COULOMB LAC 19 CARNOT NOW : #1/4 MOONS SPHERE : LAC 108 M. ORIEN(S : LAC 134 HOLTZMANN

ALTI SCALE AT TILT SUN SIDE. FILH\_EXPOSURF GET GHT M-DA-YR CAMERALLENS OR MIS MAG FR.PHUID PRIN.PT. ORB AND FILTER THOF PRING AZ ANG. ANG. FRO. SENSOR TIMES-HR M SEC STUR RULL OR LATE # M=N.HI PT. FR. LAF TYPE ( #ESTIMATED) LUNG. HAIN VERT 8. 8 K=KM.

- 1 4 2 172 42.935 67.94% 31 \*\*\* \*\*\* 050029 5-34-67 LUNAR ORB LO.FRBOMH BUM \*\* NONE 3011K 37637500 LOU 4.8 L6 \*\*\*\*

  LAM.HAD.= 41.985 79.20% Sving= 297. Phase= 86. Emis.ang.= 13. CAM.RAD.= 4750-2 km. Sum a7m= 73-1

  LAC 109 PIAZZI.V.BUUVARD : W>1/2 MUDN SPHERE 1 LAC 144 SCOTT.S.POLE NEARSIDE >6 LAC 77 ELVEY NOREL
- L 4 Z 174 13-37N 76-00W 31 \*\*\* \*\*\* D60318 5-24-67 LUNAR ORB LO-F=BORN R6W NONE Z673K 33412500 255 1-3 16 --50 CAN-NAD-= 13-91W 73-95W SWING= 69\* PHASE= 71\* EHIS-ANG== 3\* CAM-RAD== 4412-2 KM\* SUN A7M= 93-0 LAC 55 VASCUDEBAN : W21/2 MOON SPHERE: LAC 109 PIAZZI.V\* : LAC 21 N-GERARD-BOOLE & LAC 24 SINUS IRIDUM

340.0	MAG FR, PHOTO PRIN, PT, ORB MOLL OR LAT, # M MAIN LONG, #	114F2-HK U 2FC	SENSOR	AND FILTER	ALTI SCALE AT TI Tude Prin. AZ M#N.MI PT. KOKM.	FR. CAP
	2 180 40.835 75.23W 32 CAM-RAD.= 41.995 85.86W AC 109 PIAZZI.V.BOUVARD	CATION SOLUTIONS	87 FM15 ANC - 13	- HONE	37612500 A5	4.6 16
	1 186 42.275 81.34W 33 CAM.HAD. = 41.965 92.48h .AC 109 PIAZZI, V.BUUVARD	~71.11GE 27.3 PHASE	A7 FMIS AND 11.	CAMIDAD -		a territoria de la compansión de la comp
	2 186 42.265 81.34W 33 CAH.MAD.= 41.965 92.48M AC 109 PIAZZI.V.BOUVARD	2411022 273 241525	97. EMIS.ANA - 13	- AM 10-A-	44 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	- · · · · · · ·
	1 193 63-095 85-97W 34 CAM-NAD-# 68-875 107-44% 135 PINGRE H-HAUSEN					
	1 194 42.975 86.50W 34 CAM.NAD.= 42.615 99.09W AC 123 STEKLUV	241147= 5210 PHE214	AR FMISTANCE IS	* A 54 U.S.D		A 7 - 4
ίρ	1 25* 54*68N 129*77W 6 CAM*HAD*= 58*75N 99*81W 2U COULUNB   WI/4 MUON	*** **** 205019 8-07-67 L	UNAR URB HI. 610MM BEW	NONE 2	1551K 4181967 284	10+0 A -,++

TOTAL PHOTOS IN THIS GROUP # 1

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HIS HAG FR. PHULO PRIN. PT. ORB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPDSURE ALTI SCALE AT FILT SUN SIDE. SIUN KULL UR LAT. # TIMES-HR M SEC SENSUR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. # MAIN LUNG. (intSTIMATED) TYPE Manami PT. FR. LAP K=KM. VERT 9. . 8

- E 4 2 13d 13.71N 36.45M 25 \*\*\* \*\*\* 055724 5\*21\*67 LUNAR ORB LO.F=80MM B&W \*\* NONE 2671K 3338750D 263 1.3 18 \*\*.61

  CAN.NAO.\*\* 13.92N 34.43W SWING\*\* 78\* PHASE\* 68\* EHIS.ANG.\*\* 3\*\* CAM.NAO.\*\* 4410.2 KH\* SUN AZM\* 94.0

  LAC 57 KEPLER.ENC ; W>1/2 MOON SPHERE ; LAC 110 SCHICKARD ; LAC 11 J.HERSCHEL.JURAS.ROUGUFR & LAC 26 EUDOXUS.RURG

- L 4 2 148 42.945 41.38W 27 \*\*\* \*\*\* 045722 5=22=67 LUNAR ORB LO.F=80MM B&# NONE 3009K 37612500 99 4.6 18 -,\*\*

  CAM-NAD-= 42.115 52.33# SHING= 297. PHASE= 84. EMIS.ANG.= 13. CAM-RAD-= 4748.2 KM. SUN AZM= 71.6

  LAC 110 5CH1CKAHD.LACROIX ; @>1/2 MOON SPHEKE ; LAC 144 SCOTT.S.POLF NEARSIDE >& LAC 56 HEVELIUS.REI
- L 4 1 155 42-415 48-89W 28 \*\*\* \*\*\* 165826 5-22-67 LUNAR ORB HI. 610MM 86W NONE 3011K 4936066 95 4-3 17 -- 90

  CAM-HAD-# 42-075 59-07# 5WINGO 293. PHASE# 84. EMIS-ANG.# 12. CAM-RAD-# 4750-2 KM. SUN A7M# 72-8

  CENTRAL PART OF LAC 110 SCHICKARD: LAC 111 MILHELM-EL I LAC 125 SCHILLER: LAC 92 84RG105-DARWIN 6 LAC 93 M-HUMOR...
- L 4 I 160 42-795 54-52W 29 ++\* ++\* 045917 5-23-67 LUNAR ORB HI + 610HH 86W NONE 3012K 4937705 99 4+8 17 -- +\*

  CAU-HAU- 42-035 65-80W SWINGE 296+ PHASE# 85+ EMIS+ANG-# 13+ CAM-RAD-# 4751-2 KM+ SUN A7M# 77.+3

  LAC IIU SCHICKARU : #ESIERN PART OF LAC 125 SCHILLER, : SOUTHERN PART OF LAC 92 BYRGIUS, DARWIN & LAC 124 PHOCYLIDES
- L 4 2 160 42.79S 54.52% 29 \*\*\* \*\*\* 045917 5\*23\*67 LUNAR ORB LO.F#ADMM B&W NONE 3012K 37650HOD 99 4.8 17 -.\*\*

  CAM-HAD\*\*\* 72.335 65\*80W SWING\*\* 296\* PHASE\*\* 85\* EMIS\*ANG\*\*\*13\* CAM-RAD\*\*\* 4751\*2 KM\* SWN A7M\*\*72\*3

  LAL 110 5CHICKAND\*LACROIX 1 \$174 MOUNS SPHERE 1 LAC 144 SCOTT\*S\*POLE NEARSIDE >% LAC 55 VASCODEGAMMA
- L 4 | 166 71-315 60-23% 30 \*\*\* \*\*\* 161844 5-23-67 LUNAR OCH HI: 61044 86% NANE 3593K 5890164 IP! 3:4 7 -.\*\*

  CAM-HAD-= 71:195 82:44% Shinge 264: PHASE\* 93: EMIS:ANG.= 10: CAM-RAD-= 5332-2 KM: SUN AZM= 66:4

  LAC 136 BAILLEY:K : LAC 124 PHUCYLIDE ; LAC 110 SCHICKARD ; LAC 137 NEWION:MORETUS 6 LAC 144 SCOTT:5-POLE

MIS MAG FR.PHUIO PRIN.PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE		PAGE 331
H MAIN LUNG: (I=ESTIMATED) SENSUR AND FILTER H TYPE	ALTI SCALE AT TUDE PRIN. HEN.MI PI-	T I L ; SUN SIDE. AZ AHG. AHG. FWD. FR. LAP VERT R. R
LAMARA - 44 015 60+70W 30 +++ ++++ 170012 5-23-67 (HM+P OP) 44	ктки•	VERT R. R
L 4 1 167 42.015 60.70W 30 170012 5-23-67 LUNAR ORB H1. 610MM BDW - NONE  LAC 110 SCHICKARD 1 LAC 109 P1AZZI.V. 1 LAC 124 PHOCYLIDE 1 LAC 125 SCHILLER.SEGNER  L 4 2 167 42.015 60.70W 30 170012 5-23-67 LUNAR URB LO.F. 30MM BDW - CAM. HAD. W.	3009K 4932787	95 5.0 17
L 4 2 167 42-515 60-70# 30 *** *** 170012 5-73-47	& LAC	91 EICHSTADT, SE.
LAC 110 SCHICKARU LACHOIX 1 WS1/2 HOON SPHERE 86. EMIS.ANG. # 14. CAM-RAD.#	3009K 37612500	75 5.0 17
LANI-NAD = 41-945 70 000 000 0000 5-24-67 LUNAR DRD 41. (1004	THE SECTION OF THE SE	A PEODEGAMMA
LAC 109 PIAZZI, V. ; LAC 110 SCHICKARD : LAC 124 PHOCYLIDE : 405 LAC 13. CAH-RAD.	3011K 4936066 1	00 4.8 16
L 4 1 180 40+835 75+22m 32 +++ +++ 170058 5=20 /* -	& LAC	91 EICHSTADT, SE.
CEMERAL PART UP LAC 109 PIAZZI.V. : CENTRAL PART OF LAC 129 PIAZZI.V. : CENTRAL PART OF LAC 129 PIAZZI.V.	3009k 4932787	A5 4+6 16
14 2 188 13-39% 89-22% 33 ++* *** 060409 5-25-4*	E-ORIEN & LAC I	IN SCHICKARDILA
LAC 55 VASCUDEDAM : WOLZ HOOR SPHERE : LAC 123 STENION	2475K 33437500 25	55 1+3 15 -,78
L 5 2 168 3u-535 37-61# 70 *** **** 848441 8m17-47	& LAC	24 SINUS TRIDUM
L 5 2 168 30-535 37-61W 70 *** *** 040941 8-17-67 LUNAR ON3 LO.F=80MH 86W - NONE S. L. PART OF LAC 93 M.HUHORGASSENDI FHASE 70. EMIS.ANG II. CAM.RAD 1  IDTAL PHOTUS IN THIS GROUP - 15	169K 21125nD 25 1908+2 KH+ SU E+ PART GF 1AC	15 9+9 10 IN AZH= 82+6
TOTAL PHOTOS IN THIS GROUP - 15	באנ	*** SCHICKTHD*F

TOTAL PHOTOS IN THIS GROUP . 15

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MIS MAG FR.PHOTO PRIN.PT. URB GŁ T GMT M\_DA\_YR CAMERALLENS OR FILH\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL OR LAT. H TIMES-HR # SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FND. MA I IV LONG. ( = ESTIMATED) TYPE M=N.M1 PT. FR. LAP K=KH. VERT 8. 8

- L 4 2 114 13+47h 10+97H 21 +++ ++++ 054938 5=19+67 LUNAR ORB LO+F#80MM B6h --- NONE 2487K 33587500 241 1+8 19 --+64 LAM-NAD+= 13+49N 8+09M SHING# 77+ PHASE# 66+ EMIS+ANG.# 5+ CAM+RAD+# 4426+2 KM+ SUN AZM# 94+2 LAC 58 CUPERNICUS, HEINHULD 1 W>1/2 MOON SPHERE; LAC 111 WILHELM, E; LAC 12 PLATO, ALP; LAC 26 FUDOX 6 LAC 96 ALTA1
- L 4 1 119 42+795 7+44W 22 ++\* ++++ 164855 5=19-67 LUNAH ORB HI+ 610HM B&W = NONE 2991K 4903279 97 4+8 20 --+++

  CAM-NAD-= 42+265 18+74W SWING= 295+ PHASE= 82+ EMIS+ANG+= 13+ CAM-RAD+= 4730+2 KM+ SUN &ZM= 69+1

  LAC 112 1YCHU+5TU C LAC 126 CLAVIUS+M ; LAC 127 HOMMEL+VL ; LAC 94 PITATUS+M+NUBIUM & LAC 95 PURBACH+ARZAC
- L 4 2 121 13-81N 16-80H 22 ••• ••• 175143 5-19-67 LUNAR ORH LU-F=80MM 86N NONE 2682K 335250DD 268 1-3 20 --66 CAM-NAD-= 13-67H 14-69M Shing= 83. PHASE= 67. EMIS-ANG.= 3. CAM-RAD-= 4421-2 KM- SUN AZM= 94-4 LAC 58 CUPERNICUS, REINHULD : W>1/2 MOON SPHERE ; LAC 111 MILHELM, E ; LAC 96 ALTAI SCA ; LAC 11 J-HER & LAC 27 GEMIN
- E 4 1 124 4J.LDS 14.GBW 23 ... see ... 045059 5-20-67 LUNAR ORB HI. 610MM B&W NONE 2994K 4908197 99 4.8 ZO ... see Camenade 42.ZIS 25.42% Swinge 297. Phase 82. Emiseangle 13. Camerade 4733.2 km. Sur azme 69.4 Easienn Pari of Lac III wilhelmee; Lac II2 Tychoesto : Southern Part of Lac 94 Pitatus, menubium & Lac IZ6 Clavius, maginus
- L 4 2 126 12°87N 23°U5N 23 \*\*\* \*\*\* 055348 5-20-67 LUNAR ORB LO-F=80MM B&W NONE 2677K 3346250D 238 1°3 20 -.\*\*

  CAM\*HAD\*= 13°94N 21°27% SWING= 53° PHASE= 68° ENIS\*ANG\*= 3° CAM\*RAD\*= 4416°2 KM° SUN AZH= 9°°00

  LAC 58 CUPERHICUS, REINHULU ; P>1/2 MUON SPHERE ; LAC 111 MILHELM, ELGER\*MEE & LAC 10 BABBACF, N.PR

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR GMT H-DA-YR GLT HIS MAG FREPHULU PRINEPT, URB AND FILTER TUDE PRING AT ANG. ANG. FWD. SENSOR TIMES-HR M SEC SION HULL OH LAT. MmN.M1 PT. FR. LAP TYPE (ImESTIMATED) HA Lit LUNGS VERT 8 . 8 K=KM. - None 3003K 4922951 97 4+8 19 --\*\* E 4 1 136 42+655 27+404 25 \*\*\* \*\*\* 045435 5-21-67 LUNAR ORB HI: 610HH B&W CAH+RAD+= 4742+2 KH+ SUN AZH= 70+3 CAM-HAD. # 42-165 38-84# SAING# 295. PHASE# 33. EHIS.ANG.# 13. 6 LAC 94 PITATUS, H. IJUR LAC 111 ALLHELMAR : LAC 125 SCHELLERA : LAC 126 CLAVIUSAM : LAC 93 MaHUMORA.GASSENDI - NONE 3003K 37537500 97 4+8 19 ----L 4 2 136 44.645 47.400 25 ... ... 045435 5-21-67 LUNAR ORB LO.F. BOMM BEN CAM+RAD+# 4742+2 KM+ SUN A2M# 70+3 PHASES 83. EMIS.ANG. 13. Swing= 295. CAH. NAD. = 42.165 38.84W LAC 144 SCOTT, S. POLE NEARSIDE >6 LAC 57 KEPLER, EHCKE | W>1/2 HOON SPHERE LAC III HILHELM. ELGER. MEE NONE 3007K 4929508 93 5.2 20 -... E 4 1 142 44.045 33.378 26 ... ... 165605 5-21-67 LUNAR ORB HI. 610MM BGW SUN AZM# 70+4 CAM - RAD - 4746 - 2 KH -SWING 291. PHASE 84. EMIS.ANG. 14. CAM-HAU-# 42-145 45-58W MESTERN PART UF LAC 111 MILHELM. LAC 125 SCHILLER, S : LAC 126 CLAVIUS, M : LAC 93 M.HUMOP. GASSENDI & LAC 110 SCHICKAR NONE 3987K 37587500 93 5+2 20 -+\*\* L 4 2 142 42+045 33+37W 26 ++\* ++\* 165605 5-21-67 LUNAR ORB E0+F#80HN R&W CAM+RAD+# 4746+2 KM+ SUN A2H# 70+4 PHASE 84. EHIS.ANG. 14. 5 # ING# 291 . LAM-HAD-= 42-145 45-58# I LAC 144 SCOTT. S. POLE NEARSIDE >6 LAC 56 HEVELIUS, RET : @>1/2 HOON SPHERE LAC 111 HILHELM, ELGER, MEE NONE 3009k 4932787 99 4+6 18 -+\*\* 1 4 1 148 42.455 41.38W 27 \*\*\* \*\*\*\* 045722 5-22-67 LUNAR ORB HI. 610MM B&W 4748+2 KM+ SUN AZH# 71+6 CAR+RAD . = CAM+HAD+# 42+115 52+33# SWING# 297+ PHA5E# 84+ EMIS+ANG+# 13+ 6 LAC 93 H.HUHOR ... GASS LAC 110 SCHICKARU I CAC 111 HILHELM. L LAC 125 SCHILLER. L LAC 92 BYRGIUS DARWIN - NONE 3011K 4936066 95 4.3 17 -.90 L 4 1 155 42.415 48.498 28 \*\*\* \*\*\* 165826 5-22-67 LUNAR ORB HI. 610MM BGW CAM+RAD+= 4750+2 KM+ SUN #ZH# 72+8 SwING= 293. PHASE= 64. EMIS.ANG. # 12. CAN-HAD-# 42-075 59-07W 6 LAC 93 M.HUMDR... CENTRAL PART OF LAC ITU SCHICKARD. I LAC ITI WILHELM.EL I LAC 125 SCHILLER. I LAC 92 BYRGIUS.DARWIN NONE 2669K 33362500 255 1.4 17 -.58 L 4 2 157 13+36N 56+27W 28 ++\* ++\* 180116 5-22-67 LUNAR ORB LO+F#80MM BLW CAH+RAD+# 4408+2 KM+ SUN A7M= 93+4 PHASE= 78. EMIS.ANG.# 3. CAM-HAD-= 13.91N 54.17W 5altiG= 69. & LAC 25 CASSINI, ALPS LAL 56 NEVELIUS,R : W>1/2 HOUN SPHERE : LAC 92 BYRGIUS,DA : LAC 10 BABBAGE,N.PROCELARM.

- L 4 2 187 14.965 89.06W 33 \*\*\* \*\*\* 053334 5-25-67 LUNAR ORB LO.F=80MM 86W NONE 2723K 34837500 145 .5 14 -.\*\*

  LAM.NAD.= 14.365 89.49W SAING= 33U. PHASE= 77. EMIS.ANG.= 1. CAM.RAD.= 4462.2 KM. SUN AZM= 85.4

  LAC 73 RICCIULI,NE.ORIENIAL : G>1/2 MOON SPHERE : LAC 143 S.HAUSEN LEGENTIL & LAC 3A RONTGEN LORE
- LS 2 126 42.3US 11.63H SS \*\*\* \*\*\* D4161S 8-15-67 LUNAR DRB LO.F=BOMH B6W NONE 217K 2712500 187 4.9 9 -- 8R Cam-Hau-= 41.695 11.53W SWING= 91. PHASE= 79. EMIS.ANG.= 5. CAM-RAD.= 1956.2 KM. SUN AZM= 79.7 S. G. PART UP LAC 112 TYCHU.STOFLER & EASTERN PART OF LAC 111 WILHELM.FLGFR.MEF

# 2101	MAG FR.PHUTU PRIN.PT. URB GET GMT RULL UR LAT. # TIMES=HR M SEC # MAIN LONG. (I=ESTIMATEU)	SENSOR Type	AND FILTER	N=N+N  PT. FR. LAP K=KM+ VFRT S. S
	2 127 41-715 11-548 55 041625 CAH-RAD- 41-175 11-45W SWING 91- RESTERN PART OF LAC 112 TYCHO, STOFLER	S EASTERN PART		
	2 128 41-115 11-46W 55 *** *** 041636 CAM-NAD-= 40-645 11-38W SWING= 91- -ESTERN PART OF LAC 112 TYCHO.STOFLER	PHASES 70. FUEL No 11	FAMADAD	212K 2650000 187 3.9 988 1951-2 KM+ SUN AZH= 79+7 FILHELM+FLGER+MEE
	∠ 168 30.535 37.61W 70 040441 CAN.NAD. 23.365 36.51W 5WINGE 160. L. PARI UF LAC 93 M.HUMOR.,GASSEND1	8-17-67 LUNAR ORB LO.F=80MM B64 PHASE= 70. EHIS-ANG.= II. I N. W. PART OF LAC III WILHE	CAMADADA	1000.7

TOTAL PHOTOS IN THIS GROUP = 24

MIS MAG ER, PHOTO PRIN. PT. ORB GET GMT H-DA-YR CAMERA-LENS OR FILL-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL OR LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AT ANG. ANG. FAD. MAIN LUNG. ( = ESTIMATED) TYPE MEN.MI PT. FR. LAP K=KH. VERT S. S

- L 4 2 77% 14.925 30.15E 15 \*\*\* \*\*\* 050718 5\*16\*67 LUNAR ORB LO.F#ROHM BOW ... NONE 2730K 34125000 141 .4 23 ...\*

  CAM-HAD = 14.465 27.77E SHING= 327. PHASE= 68. EHIS.ANG.# 1. CAM. 7.# 4469.2 KM. SUN AZH# 83.0

  DEBHADED NEGATIVE : LAC 79 COLOMBO.NE : W>1/2 MOON SPHERE : LAC 42 M.SERENITY.DAWES & LAC 78 THEOPHILUS.KA
- L 4 2 95 42.535 18.70E 18 \*\*\* \*\*\* 164034 5=17-67 LUNAR ORB LO.F.#80MM B&W NONE 2975K 371875DD 95 4.7 22 -.\*\*

  CAM.NAU.# 42.275 7.64E SWING# 294. PHASE# BD. EMIS.ANG.# I3. CAM.RAD.# 4714.2 KM. 5UN AZM# 67.9

  LAC 113 HAUNULYCUS.RAB.LEVI : \$31/2 MOUN SPHERE : LAC 140 SCHRODING : LAC 129 M.AUSTRA : LAC 78 THEOP & LAC 117 TYCH

- L 4 2 112 42-575 1-35% 21 \*\*\* \*\*\* 044650 5-19-67 LUNAR ORB LO-F#BORM H6% \*\* NONE 2986K 37325000 95 4-6 20 \*\*\*\*

  CAN-HAD-# 42-265 12-U9% SWING= 294\* PHASE# B1\* EHIS-ANG\*# 13\* CAM\*RAD\*# 4725-2 KM\* SUN A7H# 69-Z

  LAC 112 TYCHU-STOFLER : W>1/2 MOON 5PHERE : LAC 144 SCOTT, S-POEF NEARSIDE >6 EAC 76 RIPHAFUS MT.

MIS MAG FR.PHOTO PRIN.PT. URB GET GMT M-DA-YR

SION RULL OR LAT. # TIMES-HR M SEC

TYPE MENAHI PTA LONG. ( =ESTIMATED) MALAM K=KM+ 7.44W 22 \*\*\* \*\*\* 164855 5-19-67 LUNAR ORB HI. 610HM 86W # HONE 2991K 4903279 97 4.8 20 -\*\*\* 1 4 1 119 42-795 CAM-RAD-# 4730-2 KM- SUN A7M4 69-1 SHING# 295. PHASE# HZ. EMIS.ANG.# 13. CAM-NAD-= 42.265 18.74W & EAC 95 PUNRACH ARTAC LAC 112 TYCHU.STU: LAC 126 CLAVIUS.M: LAC 127 HONMEL.VL: LAC 94 PITATUS.M.NUBIUM

CAMERA-LENS OR

SENSOR

FILM-EXPOSURE

- NONE 2991K 37387500 97 4+8 20 -+\*\* L 4 2 119 42-785 7-44W 22 \*\*\* \*\*\*\* 164855 5-19-67 LUNAR UR8 LO.F#ROMM BOW CAM-RAD. 42.265 18.74W SWING 295. PHASE 82. EMIS.ANG. 13. CAH-RAD-# 4730-2 KH- SUN AZH= 69-1 1 LAC 144 SCOTT: S. POLF NEARSIDE >6 LAC 58 COPERNICUS. R LAC 112 ITCHU, STUFLER 1 W>1/2 MOON SPHERE
- NONE 2994K 4908197 99 4+8 20 -+\*\* 1 4 1 124 43.635 14.08W 23 ... ... 045059 5-20-67 LUNAK ORB HI. 610MM 86W CAM-RAD . 4733-2 KM- SUN AZM 69-4 SWING= 297. PHASE= 82. EMIS.ANG.= 13. CAM-NAD-= 42-215 25-924 EASIENH PART OF LAC III WILHELM . E LAC 112 TYCHO . STO : SOUTHERN PART OF LAC 54 PITATUS . M. NIBIUM & LAC 126 CLAVIUS . MAGINUS
- L 4 2 126 12.67H 23.05N 23 \*\*\* \*\*\* 055348 5-20-67 LUNAR ORB LO.F=80MM 86W - NOME 2477K 33462500 238 1+3 20 CAM-RAD. 4416.2 KM. SUN AZM# 94.0 5w1146= 53. PHASE # 68. EMIS.ANG. = 3. CAH.NAD. = 13.94N 21.27A I LAC 111 WILHELM, ELGER, MEF & LAC TO BARRAGE, N. PR 1 P>1/2 MOUN SPHERE LAC 58 CUPERBICUS. HEINHOLD
- NONE 2999K 4916393 52 5+0 20 1 4 1 131 36.515 23.47W 24 000 0000 165252 5-20-67 LUNAR ORB HI. 610MM R6W SWING= 251. PHASE = 83. EMIS.ANG. = 14. CAM.RAD. = 4738-2 KM. SUN AZM = 74.0 CAM+HAD+= 42+265 32+12W ; LAC 112 TYCHU,STUFLER ; LAC 93 M.HUMOR.,GASSENDT LAC 94 PITATUS.H.NU LAC 111 WILHELM . ELGER . MEE
- NONE 3003K 4922951 97 4+8 19 L 4 1 136 42.655 27.46W 25 \*\*\* \*\*\* 045435 5-21-67 LUNAR URB HI, 610MM B6# CAM-RAD . 4742-2 KH. SUN AZH# 70-3 SWING= 295. PHASE= 83. EMIS.ANG.= 13. CAM.44AD. # 42.165 38.84W & LAC 94 PITATUS . M . NUB LAC 111 HILHELMIE : LAC 125 SCHILLER, : LAC 126 CLAVIUS.H : LAC 93 H.HUHOR..GASSENDI
- L 4 2 143 14-295 41-410 26 ••• •••• 172822 5-31-67 LUNAR ORB LO-F=ROMM B&W - NONE 2719K 33987500 85 1.0 19 -. 8 4458 . 2 KM. SUN A7M= 84.3 CAM-HAD. = 14.415 42.984 SWING= 271. PHASE\* 74. EMIS.ANG.\* 3. CAM.RAD.= & LAC 41 APENDINES, HAF LAC 15 LETHONNE.F : W>1/2 HOOM SPHENE : LAC 128 BIELA, NAT : LAC 23 RUMKER. SHARP
- NONE 2720K 34000000 127 +7 18 -,88 [ 4 2 ]49 15±1155 48±768 27 ••• •••• 052940 5-22-67 LUNAR ORB LO+F=BOMM R6% CAM-RAD ... 4459+2 KH: SUN AZH= 84+4 CAM-NAD-= 14.405 49.64% SWING= 313. PHASE= 74. EMIS-ANG-= 2. LAC 75 LETRUMME.F : W>1/2 MOON SPHERE ; LAC 136 BAILLEY.K : LAC 38 SELEUCUS.SCHROTER V. 6 LAC 25 CASSIRITALPS
- NONE 2723K 74037500 129 +8 17 ++B8 1 4 2 161 15-135 61-98W 29 \*\*\* \*\*\* 053134 5-23-67 LUNAR ORB LO.F#80HH 866 CAM+RAD+# 4462+2 kH+ SUN AZM# 84+7 CAM-HAD-# 14-365 62-94W SWING= 315- PHASE# 75- EMIS-ANG-# 2-LAC 74 GRIMALDI.B : WOLVE SPHERE : LAC 136 BAILLEY.K : LAC 22 SE.GERARD.BUNSEN.HARDING 6 LAC SA COPERNICUS.RE
- NONE 2722K 34025000 103 1 4 2 168 14.445 68.18W 3J ... ... 173229 5-23-67 LUNAR ORH LO.FEROMM BOW CAM-RAD. 4461-2 KH. SUN AZM. 84-9 CAM-HAD-= 14-145 64-56# Shing= 288. PHASES 76. EMIS.ANG. 2. LAC 73 UKIMALDI:8 : W>1/2 MOON SPHERE : LAC 124 PHOCYLIDE : LAC 22 SE.GEHARD.BUNSEN.HARDING & LAC 57 KFPLER.ENCKE
- [ 4 2 ] BU 40+835 75+23W 32 \*\*\* \*\*\*\* 170054 5-24-67 LUNAR URB LO+F=80MM R&W - NONE 3009K 3761250D 85 4+6 16 CAM+PAD+= 4748+2 KM+ SUN AZM= 74+6 CAM-NAB-# 41.995 85.86W SWING= 283. PHASE= 87. EMIS.ANG.= 13. : LAC 144 SCOTT.S. POLF NEARSIDE >6 LAC 77 FLVEY NOREL : W>1/2 MOON SPHERE CHAVUOU.V.ISSAIR FUE SAL
- L 5 1 125 42.9.5 11.70W 55 ••• •••• 041605 8-15-67 EUNAR ORB HI. 610MM N<sup>6</sup>W - NONE 220K 360656 185 5+5 9 -++\*\* CAN+RAD+# 1959+2 KH+ SUR AZH# 79+6 CAH-020.# 92-215 11-60M SWING# 89. PHASE# 79. ENIS-ANG-# 6. S. N. PART OF LAC 112 TYCHO, STUFLER

Ħ	HAG FROPHOTO PRINOPTO URB GET GMT  RULL UR LATO B TIMES-HR M SEC  B MAIN LUNGO (=EST1MATED)  B		TYPE	AND FILTER	TUDE PRIN AZ ANG, ANG, FRD, H=N+H1 PT, FR, LAP K=KH+ VERT \$, \$
	2 125 42-895 11-72W 55 *** *** 041605 CAM*HAD** 42-205 11-60W 5MING# 91* 5* #* PART OF LAC 112 TYCHS.STOFLER		& S. E. PART	OF LAC 111	T959+2 KM+ SUN AZM# 79+6 WILHELM+ELGER+MEF
	1 126* 42*325   1:*61# 55 *** *** 041615 LAM**NAD** 41*705   11*53#	8-15-67 LUHAR PHASE= 79. YCHO,5TOFLER	URH HI. 610MM BER EMIS-ANG 6.	- NONE Camerade=	217K 355738 185 5+0 9 **10 1956+2 KH+ SUN 42M= 79+7
	2 126 42-305 11-63% 55 *** *** 041615 CAM**HAD*** 41-695 11-53% SWING** 91- 5* n. PART UF LAC 112 TYCHO,STOFLER		L EASTERN PART	OF LAC 111	1956+2 KH+ SUN A7H= 79.7 WILHELM,FLGFR,HFF
( 5	1 127 41.725 11.53W 55 041625 CAM.NAD.# 41.185 11.46W SWING= 89. WESTERN PART OF LAC 112 T	8-15-67 LUNAR PHASE 70.			
	2 127 41-715 11-54W 55 *** *** 04162S CAN-MAD== 41-175 11-45W SWING** 91- MESTERM PART OF LAC 112 TYCHO,STOFLER		& EASTERN PART	OF CAC 111	1953+2 KM+ SUN A7M# 79+7 WILHELM_FEGER_MEF
ί5	1 128 41-125 11-44W 55 *** *** 041636 CAM+HAD** 40-645 11-38W SWING* 89* **ESTERN PART UF LAC 112 TY	8-15-67 LUNAR			
ι 5	2 128 41-115 11-46# 55 *** *** 841636 CAM-NAD-# 40-645 11-38# SAING# 91- #ESTERN PART OF LAC 112 TYCHO, STOFLER	8-15-67 LUNAR PHASE= 79.	ORB LO.F. HOMM BLW EMIS.ANG. = 4. & EASIERN PART	" NONE CAM+RAD+# OF LAC 111	212K 2650000 187 3.9 988 1951+2 KH. SUN A7M= 79.7 #TLHELM,FLGER,MFF

TOTAL PHOTOS IN THIS GROUP # 28

ALTI SCALE AT TILI SUN SIDE. CAMERA-LENS OR FILH\_EXPOSURE GET GHT M-DA-YR MIS MAG FR, PHOTO PRIN. PT. ORB AND FILTER TUDE PRIN. AZ ANG. PNG. FND. SEHSOR SION HOLL OR LAT. # TIMES-HR M SEC FR. LAP TYPE MENAHI PI. (##ESTIMATED) MAIN LUNG K#KM. VERT 8. \*

- L 4 2 84° 10°185 24°28E 16 \*\*\* \*\*\* \*\*\* 170857 5°16°67 LUNAR ORB LO°F#8DHH B&W = NONE 2727K 34087500 124 \*8 23 \*\*\*\* LAM\*NAD\*\* 14°455 23°18E SKING# 310° PHASE\* 68° EMIS\*ANG\*# 2° CAM\*RAD\*# 4466°2 KH° SUN AZH# BZ\*R LAC 78 THEUPHILUS ; \$\infty\$1/2 MOON 5° NE ; LAC 41 APENNINES; ; LAC 13 ARISTOTE, M\*FRIG 6 LAC 113 MAUROLYCUS\*R

SIUN KOLL	PHOTO PRINPER OR LATE LUNG	URB GET GMT # TIMES=HR M SEC . (**ESTIMATED)	H-DA-YR CAMERA-LENS OR SENSOR TYPE	FILM-EXPOSURE AND FILTER	ALTI SCALF AT TILT SUN SIDE TUDE PRIN. AY ANG. ANG. FM MMN.MI PT. FR. L KEKM. VERT R.
CARTHAD	• • • • • • • • • • • • • • • • • • • •	E 341NG* 294.	5-17-67 LUNAR ORB H1, 610 PHASE= 80, EMIS+ANG.= LAC 127	13. CAMERADAS	2976K 4878689 95 4+7 22 -+ 4715+2 km+ Sun A7m= 67+9 Biela+Watt
(APP MA)	·= 42·275 7·64(	E Swing= 294.	PHASE 80. ENIS.ANG	13. CAMERADAM	2975K 37187500 95 4.7 22 4714+2 km= 50N A7M= 67.9 RA : LA <sub>C</sub> 7R THEOP & LA <sub>C</sub> 112 TY <sub>C</sub>
LAM.NAD	•= 42•26S   1•05	E S#18G= 295 o	S=18-67 LUNAR ORB HI. 610 PHASE= 81. EHIS.ANG.= L LAC 112	13. CAM.RAD	2976K 4881947 96 4+8 21 -+ 4717+2 KM+ SUN A7M= 68+0 HOMMEL+VLACQ
L 4 2 100 CAM•NAD LAC 113 MAU	42+715 12+29£ •= 42+255 1+051 NULTCU5+RAB+LEVI	19 *** *** 644237 E 5WING= 295*   w>1/2 MO	5-18-67 LUNAR ORH LO.F.*80 PHASE= 81. EMIS.ANG. IN SPHERE ; LAC 140 SCHHUD	MM B&W - NONE 13. CAM.RAD.= ING: LAC 129 M.AUST:	2978K 37225000 96 4.8 21 4717-2 km. Sun A7M= 68.; RA: LAC 77 PTGLM & LAC 80 LANG
CAMERAD	•= 42•265 12•B9:	N 50[NG= 294•	PHASE # 81. EMIS.ANG. #	13. CAM.RAD.=	2986K 4695082 95 4+6 20 4725+2 KH+ SUN A7H# 69+2 5 6 LAC 127 HOMMFL,VLAC
CAH+NAD	•* 14•465 }6•43	n Swing= 263.	PHASE= 71. FMIS.ANG.=	I. CAMERADER	2717K 33962500 77 .5 20 4456.2 KM. SUN AZH= 84.0 6 LAC 42 M.SERENITY.DA
CAM+HAD	•# 71+625 40+641	n 5hinG= 211•	PHASE 91. ENIS.ANG.=	13. CAMARAD	3575K 44687500 46 4+1 9 ++. 5314+2 KM+ SUN A7M# 69+3 6 LAC 113 MAUROLYCU5,R
CANTHAU	•= 42.615 J4.26	5	PHASE= 33. EHIS.ANG.=	66. CAMERAD.=	133k 16625n0 227 57+8 10 ++- 1872+2 kH+ 5UN aZH+ 8Z+8

So to PART OF LAC 96 ALTAI SCAR : So We PART OF LAC 97 FRACASTORIUS, SONECTAR & LAC 113 MAUROLYCUS, RABELEVI

TOTAL PHOTOS IN THIS GROUP . 16

DEGRADED NEGATIVE

and the state of t

INLSE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: == DEGRADED PHOTOS, == ALMOST UNISABLE PHOTOS,

TILT AMOLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS

(-),(-),(-),(-), OH(O) == NO INFO == APPROXIMATELY NEXT TO MAGH, BEBRACKET MOUNTED; Ge CAME ON GROUND

CAMERA-LENS AS FOLLOWS: SWA. == SUPER WIDE ANGLE LENS: EKTREERTAR Z-8 LENS:

HSBH HASSELBLAD: MAURE MAUHEH: ZP, ZB, ZS LENS(PLANAR, BIOGEN, SONAR): FOCAL LENGTH (MM) & HAX.F-OPENING

10- AS EXPOS SPEED == 1/1000 (OR == TMO ZERUS)

FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF L/XXX ON ORIGENEG. AT PP 1F ALT NOT O.D.

MIS MAG FR. PHUTO PRIN. PT. URB GET GHT H-DA-YR CAMERA-LENS OF FILH\_EXPOSURE ALTI SCALE AT IILI SUN SIDE. AND FILTER TUDE PRING AZ ANG. ANG. FND. UR LAT. # TIMES-HR M SEC SIUN RULL SENSOR TYPE FR. 'AP MALH LUNG. ( = ESTIMATED) H=N.H1 PT. VERT K=KM. F. 8 44. /2.115 69.06E 10 ... ... 154924 5-13-67 LUNAR ORB LO.F. ROMM REW NONE 3498K 43725000 106 3.0 9 -. . . SUN AZH# 59.6 CAM-NAU-= /1-275 50-86E SWING= 275. PHASE # 89. EMIS.ANG. # 9. CAM+RAD == 5237 . 2 KH . & LAC 114 RHETTA.JAHSS LAC 139 HELMHULL. : W>1/2 MOUN SPHERE : LUHAR S. HEMISPHE : LAC 141 RAYLETGH - NONE 2976K 4878489 99 4+5 23 -+\*\* L 4 1 52 42.915 63.81E 11 \*\*\* \*\*\* 043024 5-14-67 LUNAR ORB H1. 610HH B6% CAM-RAD. 4715.2 KM. SUN AZM# 66.0 LAM.NAD. = 42.065 53.33E 5w1NG= 297. PHASE= 78. EMIS.ANG.# 12. LAC 129 H.AUSTRAL : LAC 114 RHEITA.JA & SOUTHERN PART OF LAC 98 PETAVIUS.H LAC 115 FURNERIUS OKEN : LAC 128 BIELA WATT 59 41.755 55.05E 12 ... ... 163122 5-14-67 LUNAR ORB HI. 610MM 868 NONE 2975K 4877049 89 346 22 -+\*\* CAM-NAD-# 42.115 46.79E 5WING# 287. PHASE= 78. EMIS.ANG.= 10. CAM+RAD+# 4714+2 KH+ SUN AZHE 68.5 LAC 114 RHELTA.JA : LAC 115 FURNERIUS : LAC 128 BIELA.WAT : LAC 129 M.AUSTRALE.LYOT & LAC 98 PETAVIUS, HOLD 59\* 41.755 55.35E 12 \*\*\* \*\*\*\* 163122 5\*14\*67 LUNAR URB LO.F.BOMN BOR - None 2975K 37187500 89 3+6 22 -++\*\* EAH-NAD-= 42-115 46-79F Swing= 287. CAM+RAD+# 4714+2 KH+ SUN AZH# 68+5 PHASE 78. EMIS.ANG. 10. LAC 114 HHELLA.JA 1 W>1/2 MOON SPHERE : LUNAH E. HENISPHE 1 LAC 140 SCHRUDINGER 6 LAC 62 M.UNDARUM.S.C 60\* 13\*585 48\*79E 12 \*\*\* \*\*\*\* 170326 5=14=67 LUNAR ORB LO.F=80NM R&W - NONE 2738K 34225000 319 +7 23 -+90 Sw1NG= 145. CAM-NAD .= 14.435 49.54E PHASE= 66. EMIS.ANG.= 2. CAMeRADem 4477-2 KMe SUN AZHE 83.6 LAC 19 CULUMOU, NE : w>1/2 MOON SPHERE : LAC 27 GEMINUS, AT : LAC 44 (LEOMEDES, M. CRIS. & LAC 114 RHETTA.JANSS 64 42.565 50.55E 13 \*\*\* \*\*\* 043230 5-15-67 LUNAR ORB HI. 610HM B&M - NONE 2973K 487377G 96 4+4 23 +++\* CAM-NAD-\* 42-145 44-27E 5HING# 294. PHASE# 79. EHIS-ANG.# 12. CAM-RAD-# 4712+2 KH+ SUN AZM# 67+0 LAC 114 KHELIA, JA : LAC 115 FURNERIUS : LAC 128 BIELA, GAT : LAC 129 M.AUSTHALE, LYOT 6 LAC 97 FRACASTORIUS. 645 44.565 50.55E 13 ... 043230 5-15-67 LUNAR ORB LO.F. 80HM 86# \* NONE 2973K 37162560 96 4.4 23 -. \*\* 5m146# 294. CAM+RAD+# 4712+2 KM+ SUN AZM# 67+0 CAM-NAD-# 42-145 40-27E PHASE# 79. EMIS.ANG. = 12.

L 4 1 65 14.905 43.30E 13 \*\*\* \*\*\* 050433 5-15-67 LUNAR ORB HI. 610MH B&% - NONE 2735% 4483607 143 \*4 24 -.49

CAN.NAU.\* 14.445 42.95E 5WING= 329. PHASE# 67. EMIS.ANG.# 1. CAM.RAD.# 4474.2 KM. SUN AZM# 82.8

EASTERN PART OF LAC 74 COLUMBO.NE; EASTERN PART OF LAC 97 FRACASTORIUS.5.NECTAR & LAC AT TARUNTIUS.LYELL

& LAC IL4 RHEITA.JANSSEN

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L 4 2 89 15-695 16-90E 17 4+\* +0+0 051844 5-17-67 LUNAR ORB LO-F-HOMM 868

LAC 18 THEOPHILUS : WOLVE HOON SPHERE : LAC 14 ENDYMION.S : LAC 42 M. SEREHITY . DANES

- HONE 2724K 34050000 154 +5 22 -+\*\*

& LAC 113 HAUROLYCUS,R

MIS MAL ED POILTO DI	etu DT nga skt	CHE M DA. VII				
#	# TIME5=  LONG. (*=EST	HR M SEC EMATED)	SENSOR TYPE	AND FILTER	TUDE PRIN. M*N.MI PT. K*KH.	T I L T SUN SIDE, A7 ANG, ANG, F <sub>M</sub> D, FR, LAP VERT S, K
L 4 2 71* 43.685 LAM.NAD.* 42.225 LAC 114 KHE11A.JA 1	46.57E 14	163344 5*15-67   301. PHASE:   LAC 78 THEOPH	LUNAR ORB LOSF=BOHM = 80° EMIS*ANG*= 1 LUS I LAC 79 COLOM	BGW - HONE 5. CAM•RAU·= BO,NE•M•NECTAR	2972K 3715mmm 4711•2 kH• & LAC	IN3 5+5 2490 SUN AZH= 64+7 144 SCOTT:5+POLE
€ 4 1 72 15•775 CAM•HAD•= 14•5υ5 6ESTERN PART OF LAC	36.35E \$#18G	. 31A. PHASE.	AR. EMISANCE	3. CAN-DAD.	# 4 7 1 - 2	C
CAH+NAU+= 14+505 LAC /9 CULUMBU+RE :	36 • 35€ ⊃ii ING:	: 316. PHASE.	E ANA FMISAANG	3. CAMADAN.	8071.3 PM.	CHR 474 83.7
L 4 2 73% 12×54N CAH+NAD∗= 13×82N DEGRADED NEGATIVE	38+33E 241NG:	■ 234 PHA5E*	LUNAR URB LO F=80HM - 64. EMI5.ANG.= 	Za rameranam	4466.2 EM.	SIIN .7Mm 95.4
L 4 Z 745 40.76N CAM.HAD.= 42.75N DEGRADED NEGATIVE :	45.57E 14 *** *** 41.06E Swine	181009 5-15-67 283. PHASE	LUNAR ORB LOSF=80NH	B&W + NONE	2970K 37125000	119 2+3 25 -+**
L 4 1 76 42+775 CAM+NAD+= 42+215 LAC 114 NHEIIA.JAN	₹\4535 ~WINDS	I Z'O+ FHADES	LUNAR URB HI. 610MM 79. EMIS-ANG.= 13 US.RAB.LEVI ; LAC	Ca CAMADANA	4711-7 + 4.	SIM 47M 67.2
₹ 4 2 76° 42°775 €AH+NAO+# 42°215 LAC 114 HHEITA,JA ;	2/023E 241NG	ı ZYδ∙ PHAS⊊≡	! 79. FMIS≥ANG.# 12	2.	4711.2 PM. (	C:(N: . 7 N = . 7 _ 7
L 4 2 82 74.375	32.46E 16 *** **** 12.04E SWING:	155638 5-16-67 273. PHASE-	LUNAR ORB LU,F#ROMH	REW - NONE	3503K 43767500	106 3+1 9+
t 4 1 83 42.955 Cam.Nad.= 42.235 Lac 113 παυκυίτου5.πα	イローブリモ きゅうりにっ	. 777	. 46 5415 .00 = 14			
E 4 1 88 42.705 CAM.HAD.= 42.265	24.94E (7 *** **** 14.18E 5wings	043838 5-17-67 295. PHASES		R6W - NONE	2973K 4873776	

CAM-HAD-= 14-455 16-59E SHING= 34D. PHASE= 68. EMIS-ANG.= 1. CAM-RAD-# 4463-2 KM- SUN AZH= 63-2

SION NOLL OR LATA	TIMES-HR M SEC	CAMERA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	
CAM.NAU.= 13.89N 5.14E	Salnum 53. PHASE	UNAR ORB LO-F=80MM R&W ** NONE 66. EH15.AHG.= 3. CAM.RAD.= LAC 58 COPEHNICUS.RF1NH	443842 KM. SUN A7MG 9447
CAM+HAD+= 14.455 3.17n	SWING= 262. PHASE=	UNAR ORB LO.F.BOMM RER - NONE 70. EM15.ANG.= 1. CAM.RAD.= 5.H : LAC 25 CASSINI.ALP5 HTS	4458+2 KH+ SIIN AZH# 83+8
CAM.NAD. = 44.455 9.814	SHING= 309. PHASE=	UNAR ORB LO.FMBOMM B&# - NONE 70. EHIS.ANG.= 1. CAM.RAD.= .MO: LAC 25 CASSINI.ALPS MIS</td><td>4457.2 KH. SUN AZH. 83.9</td></tr><tr><td>CAH+HAD+# 42+265 25+42#</td><td>SWING= 297. PHASE=</td><td>UNAR URB LO.F=80HN B&# - NONE 82. EMIS.ANG.= 13. CAH.RAD.= .M.: LAC 77 PIOLMAEUS.KLEIN</td><td>4733+2 KH+ SUN AZH# 69+4</td></tr><tr><td>CAIL+HAD+# /1-355 96+224</td><td>SWING# 246+ PHASE#</td><td>UMAR ORR LO.F=80MM R&W - NONE  94. EMIS-ANG.= LI. CAM-RAD.=  FAL : LAC LUB M.ORIEN(5% 1/3 @)</td><td>5331+2 KM+ SUN AZM+ 68+2</td></tr><tr><td>CAH+HAD+= 34+635 97+52E</td><td>SHING# 269. PHASE#</td><td>LUNAR ORB LU.F=80MM R&W - NONE   113. EMIS.ANG.= 30. CAM.RAD.= JA : LAC 6: TARUNTIUS.LYELL</td><td>7529+2 KM+ SUN A7M+275+A</td></tr><tr><td>CAN+HAD+# 34+455 97+52E</td><td>SHING# 269. PHASE#</td><td>UNAR ORH LU.F.BOMM B&W - NONE 113. Emis.ang.= 30. CAM.RAD.= JA : LAC 44 CLEOMEDES.M.CRIS.</td><td>7529+2 KH+ SUN AZH=275+9</td></tr><tr><td>L 5 2 49 31.285 51.94E</td><td>10 *** *** 125148 8-10-67 L</td><td>UNAR ORB LO.F=BOMM RSB - NONE</td><td>164K 2050000 110 10+3 17**</td></tr></tbody></table>	

CAM-HAD-# JU-935 50-87E SWING# 16. PHASE# 83. EMIS-ANG.# 11. CAM-RAD-# 1903-2 KM. SUN A7H# 77-7
S- M- PART OF LAC 98 PETAVEUS-HOLDEN : S- E. PART OF LAC 97 FRACASIOREUS-S-NE & N. E. PART OF LAC 114 RHEITA-JANSSEN

TUTAL PHUTUS IN THIS GROUP # 29

HIS HAG FR.PHUTU PRIN.PT. URB GET GMT M-DA-YR CAMERA-LENS OR FILH .. EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAI. H TIMES-HR H SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. HILAM LUNG. ( = ESTIMATED) TYPE H=N.MI PT. FR. LAP # K=KM. VERT

- L 4 2 17# 14+25H 9G+44E 6 #\*\* \*\*\* 172957 5=11-67 LUNAR ORB LD-F#80MH 86% NONE 2739K 347375HD 29D +7 28 --.84

  LAM-HAD-# 13-89N 91-45E SWING# 104. PHASE# 60. EMIS-ANG-# 2. CAM-RAD-# 4478-2 KH. SUN AZH# 97-5

  LAC 64 NE-SMYTHII : WI/4 MUONS SPHENE : LAC 115 FURNERIUS : LAC 88 LANGKENUS-M-FERT. 6 LAC 101 7510LKOVSKY
- L 4 1 27 15-225 82-67E 7 \*\*\* \*\*\* 045932 5-12-67 LUNAR ORB HI: 610MM 86% # HONE 2747K 4503279 175 \*6 26 --44

  LAM-HAD-# 14:355 82-59E SKINGM U. PHASE# 64. EMIS-ANG.# 1. CAM-RAD-# 4486\*2 KM. SUN A7M# 81.9

  CENTRAL PART OF LAC 81 ANSGARIUS, : EASTERN PART OF LAC 99 F MBOLT.GI : LAC 63 NEPER.SCHUBFRT.N.S & LAC 115 FURNER1US.OK
- L 4 1 38 42+645 77+77E 9 ++\* ++\*\* D42846 5\*13-67 LUNAR ORB H1+ 610HH B6# NONE 2982K 48R8525 98 4+8 24 --\*\*

  CAM+HAD+= 42+025 66+45E Shing= 295+ PHASE= 78+ EMIS+ANG+= 13+ CAM+RAD+= 4721+2 KM+ SON AZM= 64+8

  EASTERN PART OF LAC FIS FURNERIUS: 1 LAC F29 M\*AUSTRALE 1 LAC F16 M\*AUSTRAL 1 LAC 99 HUMBOLT+GIBB5 & LAC 98 PETAVIUS+
- L 4 1 45° 42°425 71°80E 10 °°° °°° 162932 5°13°67 LUNAR ORB H1° 610MH B&W NONE 2979K 4883607 96 5°1 25 -°°° Camenade= 42°045 59°88E Swing= 293° Phase= 78° Emiseange= 14° Camenade= 4718°2 km° sun azm= 64°7 Lac 115 funherius 1 Lac 129 Meaustrale.lyof & 5° E° Part of Lac 98 Petavius.holden
- L 4 2 45% 42.41% 71.80E 10 ++\* ++\* 162932 5=13-67 LUNAR ORB LU.F#80MM R&N = NONE 2979K 37237500 96 5.1 25 m.+\*

  CAM-NAD-# 42.04% 59.88E SHING# 293. PHASE# 78. EMIS-ANG-# 14. CAM-RAD-# 4718-2 KM. SUN A7M# 64.7

  DEGRADED NEGATIVE & LAC 115 FURNERIUS.OKEN
- . 4 J 52 42.415 63.41E E1 4.4 4.4 043424 5-14-67 LUNAR ORB HI. 610MM 86% NONE 2976K 4878AR9 99 4.5 23 -.44 Camanadam 42.665 53.33E Saingm 297. Phasem 78. Enis.ang.m 12. Camaradam 4715.2 km. Sun Azmm 66.0 Lac 135 furherius.oken i lac 128 biela.#Aft - i lac 129 m.austral : lac 114 rheita.ja 7. Southern part of Lac 98 petavius.h
- L 4 i 59 41.755 55.05E 12 ... \*\*\* \*\*\* 163122 5"14-67 LUNAR ORB H1. 610MM B&\* NONE 2975K 4877049 B9 3.6 22 -... CAN-NAU-= 42.115 46.79E 541NG= 287. PHA5E= 78. EMIS.ANG.= 10. CAM-RAD.\*\* 4714.2 KM. SUN AZM= 68.5 LAC 114 KHELIA.JA : EAC 115 FURNERIUS: LAC 128 BIELA.WAT : EAC 129 H.AUSTRALE.LYOT & LAC 98 PETAVIUS.HOLD

· 1. . . . . . .

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LAC 115 FURNERIUS ; W>1/2 MOON SPHERE ; LAC 114 RHEITA.JA : LAC 44 CLEOHEDES.M.CR15.

& LAC 129 M.AUSTRALE .L.

MIS MAG FR. PHUID PRIN. PT. URB uŁĪ GHT H-DA-YR CAMERA-LENS OR FILM-EXPOS<sup>U</sup>RF ALTI SCALE AT TILT SUN SIDE. SION HOLL OR LAT. IN TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. HAII LONG. (INESTIMATED) TYPE M=N.M. PT. FR. K#KM. VERT 8. 8 64 44.565 50.55E 13 ... ... 04323D 5-15-67 LUNAR ORB HI. 610HM B6W - NONE 2973K 4873770 96 4+4 23 -1\*\* CAM. NAD. = 42.145 40.27E SHING = 294. PHASE = 79. EHIS. ANG. = 12. CAM. RAD. # 4712.2 KM. SUN AZNe 67.0 LAC 114 RHETTA.JA : LAC 115 FURNERIUS ; LAC 128 BIELA.WAT ; LAC 129 M.AUSTRALE.LYOT 6 LAC 97 FRACASTORIUS, L 4 1 71 43.695 46.67E 14 \*\*\* \*\*\*\* 163344 5-15-67 LUNAR ORB HI. 610MH BLA - NAME 2972K 4872131 103 5.5 24 +... CAM-NAD .= 44.225 33.74E SWING 301. PHASE 80. EHIS-ANG. = 15. CAH+RAD+# 4711+2 KH+ SUN #ZH# 64+7 LAC 114 KHE1TA-JA : ENT 115 FURNERIUS : LAC 128 BIELA-WAT : LAC 129 M-AUSTRALE-LYOT 6 LAC 97 FRACASTORIUS. £ 4 2 154 71.705 33.52# 28 \*\*\* \*\*\* 161555 5-22-67 LUNAR ORB LO.F. BOMM BER - NONE 3413K 45162500 105 5.2 11 -... - CAM-HAD-# 72-675 67-24# SWING= 268. PHASE= 94. EMIS-ANG.= 16. CAM+RAD+# 5152+7 KM+ SUN A2M# 52+2 LAC 137 NEWTON, NO : WI/4 MUONS SPHERE : LAC 129 M.AUSTRAL : LAC 74 GRIMALDI.BILLY & LAC 93 M.HUMOR. GASS L 4 1 184 35-185 69-32E 33 \*\*\* \*\*\* 013032 5-25-67 EUNAR ORB HI. 610MH BGW - NONE 5790K 9491803 259 6+6 7 -+\*\* LAH. NAU. = 34.035 97.52E SWING= 269. PHASE= 113. EMIS.ANG. = 30. CAM-RAD. # 7529-2 KM. SUN AZM#275-8 LAC 115 FURNERIUS.OKEN : DIZY MOONS SPHERE : LAC 62 M. UNDARUM. S. CRISTUM & LAC 63 NEPER. SCHURE £ 4 2 184 35+185 69+32E 33 \*\*\* \*\*\*\* 013032 5-25-67 LUNAR ORB LO+F\*80HH 86# \* NONE \$79DK 72374999 259 6+6 7 -... CAM . MAD . = 34 . U35 97 . 52E SATRG= 269. PHASE # 113. EHIS.ANG. = 30. CAM+RAD+# 7529+2 KH+ SUN AZH#275+8 LAC 115 FURNERIUS : W>1/2 MOON SPHERF : LAC 114 RHEITA.JA : LAC 61 TARUNTIUS.LYELL & LAC 44 CLEOMEDES.M.C. L 4 1 185 35-275 67-30E 33 \*\*\* \*\*\*\* 013036 5-25-67 LUNAR ORB H1. 610HH R6% - NONE 5790K 9491803 258 6+6 7 +.90 CAM+NAU+= 34+055 97+52E S#1HG= 269. PHASE 113. FHIS.ANG. 30. CAM+RAD+= 7529+2 KH+ SUN AZH=275+9 LAC 115 FURNERIUS DKEN : MI/4 HOOMS SPHERE 1 LAC 62 M. UNDARUH. S. CRISTUM & LAC 63 NEPER. SCHUBE L 4 2 185+ 35+275 69+145 33 +++ +++ 013036 5+25+67 LUNAR ORB LOTE #80MM BGW - NONE 5790K 72374999 258 6+6 7 -.\*\*

CAM+NAD+# 34+055 9. / LE SAING# 269+ PHASE# \$13+ EMIS+ANG+# 30+ CAM+RAD+# 7529+2 KH+ SUN AZH#275+9

TOTAL PHOTUS IN THIS GROUP = 16

INLS INU SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS, \$# ALMOST UNUSABLE PHOTOS,

ILLI ANGLES: AZIMUTH OF DIRECTION OF TILITAZ) & VERTICAL TO CAMERA AXIS

(-)\*(\*)\*(\*)\*(\*)\*\*, OR(\*)\*\*, NO INFO | W = APPROXIMATELY | NEXT TO MAGM. B=BRACKET | MOUNTED! G# CAM. ON GROUND

CAMENA-LENS AS FOLLOWS: | SK.A. = SUPER WIDE ANGLE LENS! EKTWEKTAR 2.8 LENS!

HSB# HASSELBLAD! | MAUNE MAURER! ZP.ZB.ZS = ZEISS LENS!FLANAR.BIOGEN.SONAR)! FOCAL LENGTH(MM) & MAX.F-OPENING

LU- AS EXPOS SPEED = 1/1000 (UR \*= THO ZEROS)

FUR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1,XXX ON ORIG.NEG. AT PP IF ALT NOT 0.0

MIS MAG FR.PHUTU PKIN.PT. URB GMT M-DA-YR Gt I CAHERA-LENS OR FILM-EXPOSURE ALT! SCALE AT TILT SUN SIDE. SIUN ROLL ON LAT. TIHES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. MAIN LUNG. ( #ESTIMATED) TYPE MENAMI PT. FR. LAP K=KM. VFRT 8. 9. L 4 1 9 41-795 96-20E 6 \*\*\* \*\*\* 162638 5-11-67 LUNAR ORB HI. 610HH 86W

CAM-MADO # 42-025 Ho-28E SWING= 289. PHASE= 76. EMIS.ANG. # 12. CAM-RAD. # 4728-2 KM. SUN AZM= 65.1

LAC 116 M-AUSTRAL : LAC 99 HUMBOLT.GI; LAC 100 CURIE : LAC 129 M.AUSTRALE.LYOT & LAC 130 E.MAR AUSTRA

L 4 2 11 41.045 96.20E 6 \*\*\* \*\*\* 162659 5\*\*L1-67 LUNAR ORB LO.F=80HM R&W \*\* NONE 2986K 37325000 R7 4.3 25 -.90

CAM.HAD.\*\* 41.745 86.32E Shing# 285, Phase\* 76. Emis.ang.\* 12, CAM.RAD.\*\* 4725.2 KM. SUN AZM# 65.4

LAC 116 M.AUSTRAL 1 W>1/2 MOON SPHERE; LUNAR E. HEMISPHE; LAC 140 SCHRODINGER & LAC 63 NEPER, SCHUBER

L 4 I 12 40+675 96+18E 6 \*\*\* \*\*\* 1627UB 5~11-67 LUNAR ORB H1+ 610MH 86W - NONE 2984K 4891803 86 4+3 25 -+90 Cah+had\*\* 41+615 86+34E 5#ING= 283\* PHASE= 76\* EMIS\*ANG\*\* 12\* CAH\*RAD\*\* 4723\*2 KM\* SUN AZH= 65\*6 LAC 116 H\*\*AUSTRAL ; LAC 99 HUMBULT\*GI ; LAC 100 CURIE ; LAC 129 M\*\*AUSTRALE\*LYOT & LAC 130 E\*\*MAR AUSTRA

L 4 I J35 41.845 84.13E 8 4.0 4.0 1628GI 5-12-67 LUNAR ORB HI. 610MM B6W - NONE 2985K 4893443 92 4.7 25 -... LAM.NAD.= 42.125 73.04E SHINGE 289. PHASEE 77. ENIS.ANG.= 13. CAM.RAD.= 4724.2 KH. SUN AZH= 64.9 DEGRADED NEGATIVE : LAC 116 M.AUSTRALE.JENN: SUUTHERN PART OF LAC 99 HUMBOLT.GIRB & EASTERN PART OF LAC 129 M.AUSTRALE

HIS MAG FR.PHUIU PRIN.PT. URB Siun Hull ur lat. # # # main lung. #	TIMES-HR M SEC	SENSOR AND FILTER	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. FND. M=N.MI PT. FR. LAP K=KM. VERT 8.8
CHURADO 45.052 12.014E	5wing 289. 5-12-67 LUNAR 5wing 289. PHASE= 77. 6 LAC 116	FRISANCAR I 3 A CAMADADADA	2985K 37312500 92 4+7 25 **** 4724+2 KM+ SIIN AZH* 64+9
CANAHAD # 12.025 00,45E	>WING= 295. PHASE= 78.	FMIS-ANG = 13 CAM DAD =	2982K 4888575 98 4.8 24 4721.2 KM. SUN AZMR 64.8 GIBB5 & LAC 98 PETAVIUS,
DERKADEN WERNINE : FUC 80 FUL	ACHENUS 1 LAC 44 CFENNEOF2" :	ENISANG.= 1. CAM-RAD.=	7740K 3425mnnn 122 +5 2554 4479+Z KH+ SUN A7H= 82+4 6 LAC 64 NF+5HYTH11 HE
CAN+HAD+= 42+235 20+715	SWING 297. PHASE AC.	EMISAANG 19. CAMADAD	2972K 3715000U 98
CHILDIANA - 17.1702   15.03h		ORB LO.F.BOMM BLW - NONE EMIS-ANG. 13. CAM-RAD. = : LAC 144 SCOTT, 5. POLF NE	2986K 37325000 95 4.6 20** 4725.2 KH: SUN AZH: 69.2 ARSIDE >6 LAC 76 RIPHAEUS HT,
CALLEGADE 110013 SEGULA	<b>→ MING 4/5 PHASE 72</b>	ORU LO . F = ROMM R&# - NONE EHIS = ANG . * 9 . CAM • RAD • = LAC 116 M • AUSTRALE • JENNER</td><td>3555K 44437500 107 3+0 A -, ++ 5294+2 KM+ SUN A7M# 62+0 6 LAC 94 P1TATUS, M+NUR</td></tr><tr><td>CAUSHVDS 334AR2 194+14E</td><td>34116= 2/5. PHASE= 112.</td><td>ORB HI. SIOMH BEW - NONE EMIS-ANG.= 23. CAM-RAD.# : LAC 63 NEPER.SCHURERT.N</td><td>5796K 9501639 264 5+3 2** 7535-2 km+ SUN AZM=271+9 -5MYTHI & LAC 99 HUMROLT+GIRB</td></tr><tr><td>CANTON 230 183 184014E</td><td>201100 2750 PHASER 112.</td><td>ORB EU:F#ADHH B&W - NONE EMIS:ANG:# 23: CAM:RAD:# FRACASTURIUS:S:NE : LAC :31 PRAN</td><td>5796K 72449999 264 5.3 2** 7535.2 KM. SUN AZH#771.9 DTL PEANK & LAC 4 TOTARCH.H</td></tr></tbody></table>	

TUTAL PHUTUS IN THIS GROUP # 1

S. ALHOST UNUSABLE PHOTOS. THESE TWO SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN: . . DEGRADED PHUTOS. TILL ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS W = APPROXIMATELY MEXT TO MAGN. B=BRACKET MOUNTED; G= CAM. ON GPOUND (-),(+),( ), DR(0) = NU 1HF0 SW.A. . SUPER WIDE ANGLE LENST EKTHAEKTAR 2.8 LENST CAMERA-LEHS AS FULLOWS: MAUR= MAURER: ZP.ZB.ZS = ZEISS LENSIPLANAR.BIOGEN.SONARI: FOCAL LENGTHIMM & HAX. +- OPENING HSB= HASSELBLAD: TU+ AS EXPOS SPEED = 1/1800 (OR += TWO ZERUS) FOR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT D.O.

ALTI SCALE AT TILT SUN SIDE. CAMERA-LENS OR FILM-EXPOSURE GMT H-DA-YR MIS HAG FR. PHULU PRIN. PT. URB GET PRIN. AZ ANG. ANG. FRD. AND FILTER TUDE SENSOR TIMES-HH M SEC SION ROLL UR LAT. FR. LAP M=N.MI PT. TYPE ( = ESTIMATED) LUNG. MAII K=KM. VERT 8 8 # - NONE 1198K 14975000 258 35.7 69 L 1 2 102 14.685 104.35E 60 ... ... 163624 8-23-66 LUMAR ORB LO.F=80HM R&N SUN AZM#318#3 CAM.RAD. 2937.2 KM. PHASE= 95, EMIS.ANG.= 81. CAM.NAD. = 9.765 150.38E SWING# 254. & LAC 117 VAN DER MAAL LAC 82 SE.N. SMYTH : LUNAR DISC FARSID : LAC BUT TSTOLKOVS : LAC 83 LANGEMAK - NONE 1463K 2398361 182 12+7 20 CAM-RAD = 3202+2 KH+ SUN AZH=277.5 PHASE TO. EMIS.ANG. = 24. CAH+HAD+= 12+925 127+09E 5w1NG= 184. 1 S. E. PART OF LAC 83 LANGEMAK & N. F. PART OF LAC LIT VAN DER MAA EASTERN PART OF LAC TOT TSTULKOVSKY NONE 2989K 4900000 91 4+2 25 ----6 \*\*\* \*\*\* 162638 5-11-67 LUNAR URB HI. 610MM B6W 9 41.795 76.20E SUN AZH# 65+1 CAM.RAD. 4728+2 KH+ PHASE 76. EHIS.ANG. # 12. Swing= 289. CAM.HAD. # 42.625 86.28E & EAC 130 F.MAR AUSTRA LAC 116 M.AUSTRAL : LAC 99 HUMBOLT.GI : LAC 100 CURIE : LAC 129 M.AUSTRALE.LYOT L 4 1 10 41-425 76-19E 6 \*\*\* \*\*\* 162648 5-11-67 LUNAR ORR HI. 610HM REW NONE 2987K 4896771 89 4.3 25 7.90 SUN AZM 65.2 PHASE 76. EMIS.ANG. 12. CAM . RAD . .. 4726.2 KM. 5ming= 287. CAM . HAD . = 41.885 86.30E & LAC 130 E. MAR AUSTRA LAC 116 H.AUSTRAL : LAC 99 HUMBULT.GI : LAC 100 CURIE : LAC 129 M.AUSTRALE, LYOT NOVE 2986K 4895€82 87 4+3 25 -.70 6 \*\*\* \*\*\*\* 162658 5-11-67 LUNAR ORB HI. 610HM REW 1 4 1 11 41+845 96+19E 4725+2 KH+ SUN AZH= 65+4 CAM+RAD . " PHASE 76. ENIS.ANG. 12. CAH-NAD = 41.745 86.32E SAIHG= 285. & 1AC 130 F.MAR AUSTRA LAC 129 H.AUSTRALE.LYOT LAC 116 M.AUSTHAL : LAC 99 HUMBOLT.GI : LAC 100 CURTE NONE 2984K 4891803 86 4.3 25 -.90 L 4 1 12 40-675 96-18E 6 \*\*\* \*\*\* 1627U8 5-11-67 LUNAR ORB HI. 610MM 86W CAH+RAD+# 4723+2 KM+ SUN AZM# 65+A PHASE = 76. EHIS.ANG. = 12. S#1:46= 283. 445.08 610.14 = . CAN. MAJ ARTZUA RAHES OF LOAL &

LAC 116 M.AUSTRAL ; LAC 99 HUMBULT.GI ; LAC 100 CURIE : LAC 129 M.AUSTRALE,LYOT

TOTAL PHOTOS IN THIS GROUP .

6 LAC 18 TIKHOV

MIS MAG FR.PHUTO PRIN.PT. ORB GET GMT M\_DA\_YR CAMERA-LENS OR FILM\_EXPOSURE ALTI SCALE AT I I L T SUN SIDE. UR LAT. TIMES-HR H SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. MAIN LUNG. (TEESTIMATED) TYPE M=N.MI Pī. FR. LAP K=KH. VERT 8. 8 NONE 6142K 76774999 293 2+4 ++ CAM-NAD-# +11N 172+38% SWING= 294. PHASE = 115. EHIS.ANG. = 11. CAM+RAD+= 7981+2 KM+ SUN AZM#271.5

TOTAL PHOTOS IN THIS GROUP #

LAC 68 SHAROHUW : #>1/2 MOUN SPHERE : LAC 118 JULES VER : LAC 65 GUYOT KING

;

ALTE SCALE AT TILT SUN SIDE. FILH-EXPOSURE CAMERA-LENS OF HIS MAG FR. PHUTU PRIN. PT. URB GE T M-DA-YR TUDE PRIN. AZ ANG. ANG. FID. AND FILTER SENSOR TIMES-HR M SEC SION HOLL LAĪ. Manage PT. FR. LAP TYPE (IWESTIMATEU) MAIN LUNG. VERT я, я K#KM.

L 4 2 130 65.025 25.85% 24 \*\*\*\*\* 161103 5"20"67 LUNAR ORB LO.F.BOMM REW "NONE 3575K 44687500 06 4.1 9 -."

CAN.NAD. 71.625 40.64W SWING= 211. PHASEM 91. EMIS.ANG. 13. CAM.RAD. 5314.2 KM. SUN A/M. 69.3

LAC 137 NE.TUH.MO 1 01/4 HOOMS SPHERE; LAC 119 THOMPSON, ; LAC 93 M.HUHOR., GASSENDI & LAC 113 MAUROLYCUS.R

TOTAL PHOTOS IN THIS GROUP . . .

MIS MAG FR.PHOTO PRIM.PT. ORB GE 1 GMT M-DA-YR CAMERA-LENS OR FILH-FXPOSURF ALTE SCALE AT TELT SUN SIDE. SION ROLL υR Lui. TIMES-HR H SEC SENSOR AND FILTER THRE PRIN. AT ANG. ANG. FWD. ( \*ESTIMATED) TYPE MENOMI PT. FR. LAP LUNG. K=KH. VERT 8. 7

- L 5 1 30 25+7₹5 139+29₩ 10 \*\*\* \*\*\* 024335 8=09=67 LUNAR OHH HI. 610HM R6% NONE 5069K 8309836 261 9+6 7 =+\*\* CAM+HAD+# 25+335 104+79₩ SMING# 92, PHASE# 124+ EM15+ANG+# 41+ CAM+PAD+# 6808+2 KH+ SMV A7H#274+9 LAC 106 MARIUITE : ₩1/4 HOONS SPHERE : LAC 70 H+W+HERTZS : LAC 69 ENGLEHARDT & LAC 121 APOLEO
- t 5 2 65° 40°775 168°614 35 \*\*\* \*\*\* 114922 8=12-67 LUNAR ORB LO°F=RDMM B66 NOME 1192K 14900ADD 246 19°7 \*\* -°°° Cam•nad•= 44°725 147°27m - Sming= 83° - Pha5e= 128° Eni5°ang°= 35° - Cam•rad°= 2931°2 km° - Sun azm≈268°D Lac 133 lenatime 1 №174 Nuons 5<sup>p</sup>heke ; lac 121 apoleo ' lac 120 oppenheimer - 6 lac 132 abbe°H£55

TOTAL PHOTOS IN THIS GROUP = 3

REPRODUCIBILITY OF THE ORNALL PACT IS POOR

& LAC 132 ARRE, HESS

. = DEGRADED PHOTUS. So ALMOST UNUSABLE PHOTOS. THESE IND SYMBULS NEXT TO HAIN OR PHOTO NUMBER HEAN: TILT ANGLES : AZIMUTH OF DIRECTION OF TILT(AZ) & VERTICAL TO CAMERA AXIS ₩ # APPRUXIMATELY NEXT TO HAGM, R#BHACKET MOUNTED: G# CAM, OH GPOUND (-),(0),( ), OR(0) = NO INFO SW.A. . SUPER WIDE ANGLE LENST EKTREEKTAR 2.8 IFNS: HAUR MAUNER: ZP, ZB, Z5 = ZE155 LENS(PLANAR, BIOGEN, SONAR); FOCAL E, NGTHIMM; & MAX, F-OPENING CAMERA-LENS AS FULLOMS: HSB# HASSELBLAD! to. AS EXPOS SPEED # 1/1000 tor .. Two ZEROS; FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE 15 THE XXX OF LIXXX ON ORIGINES. AT PP IF ALT NOT 10+11

ALTS SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR PRIN. A7 ANG. ANG. FND. B-DA-YR GHI HIS HAG FR. PHUID PRIN. PT. URB GET TUDE AND FILTER SENSOR LAP TIMES-HR M SEC FH. MENSME PT. UK LAT. SION HULL TYPE VERT (I \*LSTIMATED) K=KM+ LONG. MAIN NONE 5069k 8309836 261 9+6 7 30 25-775 137-29% to \*\*\* \*\*\*\* D24335 B-09-67 (UNAR ORB HI: 610HH B&W SUN AZH#274+9 6808 . 2 KH . SWING 92. PHASE 124. EMIS.ANG. 41. CAH+RAD + # . LAC 121 APOLLO LAC 106 MANIOTTE : WITH MUONS SPHERE : LAC 70 N.W. HERTZS : LAC 69 ENGLEHARDT CAM+HAD = 25+335 104+74W HONE 1364K 17050000 280 21+8 2 L 5 2 31 28 - 04N 135 - 71W 11 \*\*\* \*\*\* 093219 8-09-67 LUNAR ORB LO.F=80MM 86M 3103+2 KH+ SUN A7H#270+8 CAM.PAD.w PHASE= 138. EMIS.ANG.= 42. & LAC 121 APOLLO Swing= 89. LAC 52 JUULE E-MA : WITH MUONS SPHERE : LUNAR W. HEHISPHE : LAC 122 LANGHUIR STETSON MONE 1191K 1952459 252 20+2 \*\* L 5 1 43% 47.535 151.45W 25 \*\*\* \*\*\*\* 035821 8-11-67 LUNAR ORB H1. 610MH 86W 2930+2 KM+ SUN AZH#267+4 E.GAR.PAD. PHASE= 130. EM[5.4NG.= 36. Salug= 90. DEGRADED REGATIVE 1 SOUTHERR PART OF LAC 121 APOLEO & NORTHERR PART OF LAC 133 LEHATTRE CAM-HAD-= 44-895 129-44# \* NONE 1191K 14887500 252 70+7 \*\* 43 47.435 151.42# 25 \*\*\* \*\*\* 035821 8\*11\*67 LUNAR ORB LO.F.\*BOHM 86# SUN A7M=267+4 2930+2 KH+ CAM-RAD.= PHASE 130. EMIS.ANG. 36. & LAC 134 BOLTZMANN S#186\* 91\* CAN-NAD = 44.705 129.44# LAC 121 APULLO : GL74 HUGHS SPHERE : LINB UR HURIZON : LAC 186 MARIOTTE - NONE 1192k 14900000 246 19.9 \*\* 65\* 48.775 168+61# 35 \*\*\* \*\*\*\* 114922 8-12-67 LUNAR DRB LO.F=HOMM BOW 2931+2 KM+ SUN A7H#26R+0 CAH+RAD+# SAING= 83. PHASE= 128. EHIS.ANG.= 35.

LAC 133 LEMATINE : WI/4 HUONS SPHERE : LAC 121 APOLLO : LAC 120 OPPENHEIMER

TOTAL PHOTOS IN THIS GROUP .

CAM+HAU+# 44+725 147+27#

FILH\_EXPOSURE ALTE SCALE AT TILT SUN SIDE. MIS MAG FR. PHULU PRIN PT. URB GHI M\_DA-YR CAMERA-LENS OR GET PRIN. AZ ANG. ANG. FWD. TIMES-HK M SEC SENSOR AND FILTER TUDE SIUN ROLL UR LAT. FR. LAP ( #ESTIMATED) TYPE IM•H=H PT. MAIN LUNDA VERT K=KM. 8 . 8

L 5 Z 34 ZB+U4H 135+71W 11 ++\* 93Z19 B=09-67 LUNAR ORB LO+F#HDMM REP = NONE 1364K 1705000D ZBD 21+R 2 =+\*\*\*

CAM+HAD+# Z6+12H 133+59W 5... B9+ PHASE# 130+ EHIS+ANG+# 42+ CAM+RAD+# 31D3+2 KM+ 5UN AZM#270+R

LAC 5Z JOULE E+MA ; @1/4 MUDHS 5PHERE ; LUHAR W+ HEHISPHE ; LAC 122 LANGMUIR STETSUR & LAC 121 APOLLO

TOTAL PHOTOS IN THIS GROUP . 1

& LAC 90 LOWELL

n15 510r	NAG FR.PHUIU P KULE OK LAT # MAIN #	KIN.PI. ORB • # TI LONG. (:	GET GMT M-DA-YR MES-HR M SEC WESTIMATEDI	CAMERA-LENS OR F SENSOR TYPE	1∟M=EXPOSURE AND FILT₅R	ALTI SCALE AT T 1 TUDE PRIN. A7 H=N.MI PT. K=KM.	FR. LAP
	TAB . E.L = . CAB . HAJ .	80.57W S	•••• 184342 5-24-67 wing: 143• Phase: Here: Lac 123 Sterle	72. EHIS.ANG. = 3.	CAH.RAD. u	4413+2 KH. SUN	AZM= 93.7
	CAM.HAD.= 41.965	92.48n 5	**** 050123 5-25-67 HING= 293. PHASE= ; LAC 135 PINGHE N	87. EHIS.ANG.= 13.	CAM + PAD + *	4745+2 KH+ SUN	AIM= 74.2
	CAM-NAD.= 13.921	87•17h 5.	•••• 060469 5~25-67 Wing= 69• Phase Here   Lac   23 Steric	72. EHI5.ANG.# 3.	CAH+RAD+=	4414+2 KM+ SUN	AZM= 92+7
	LAM.NAD. # 68.875	107+44# S	•••• 162428 5-25-67 WING= 232• PHASE=   LAC   24 PHUCYLIDE	95. EMIS+ANG. 15.	CAM+RAD + m	5258+2 kM+ 5UN	AZH= 68.6
	LANGHADES 42-015	99.89W S	•••• 170147 5-25-67 AING= 297• PHASE= : LAC 169 PIAZZI:	88. EHIS.ANG.# 15.	CAM+RAD+=	4742+2 KH+ SUN	AZM= 73+3
1, 4	Z 1945 42.975 CAM.HAD.# 42.015	99.49H 34 0.0	•••• 170147 5-25-67 WING# 297• PHASE#	LUNAR ORB LO.F=40MM R BB. EMI5.ANG.* 15.	EW - NONE	3703K 37517500 100	5+3 16 -+++

L S | 13 | 14-32H | 162-40H | 2 \*\*\* \*\*\* | 133325 | 8-06-67 LUNAR BRB | HI- 61THM P&W | # | NONE 5755K | 9434476 | 279 | 7-6 | 3 | -:
CAM-HAD-# | 11-15H | 74-61H | SNING# | 92+ PHASE# | 122+ EMIS-ANG+# | 35+ CAM-RAD+# | 7454-2 KM+ SUM AZM#Z70+R
LAC | /2 ELVEY | HUDEL | WI/4 | MUDHS | SPHEKE | LAC | 23 COULUMB | LAC | 35 LANDAU | & LAC | 123 STEKLOV

UEGRADED NEGATIVE : LAC 123 STERLOY : WOLZ HOON SPHERE : LAC 134 HOLIZHANN

L 5 1 14 14-274 102-39# 2 \*\*\* \*\*\* 133328 8=06-67 LUNAH URP HI, 610HM R6W = NONE 5756K 9436066 279 7-6 3 --90 Can-had-= 11-14H 74-61W Shing= 92+ Phase= 122+ EHIS-ang+= 35+ Cah-rad+= 7495-2 km+ Sun azh=270-8 LAC /2 EEVEY HUGEL I WI/4 HOONS SPHENE ; LAC 20 COULOMB ; LAC 35 LANDAU 6 LAC 123 STFKLOV

MIS HAG FR.PHUIU PRIN.PT. URB SIUN RULL UR LAT. # # # MAIN LONG.	TIMES-HR M SEC	SENSOR AND FILTER	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD. M=N.MI PT. FR. LAP K=KH. VERT 9. F
£ 5 } 16 14•18N 1∪2•37W 2 CAM+NAD+= 11•12N /4•60W LAC /2 ELVEY NDBEL ; ₩1/4 MUONS	SWING= 92. PHASE=	127. EMIS.ANG.# 35. CAM.RAD.#	5757K 94377n5 279 7+6 3 -+9n 7496+2 KM+ SUN AZH#270+8 6 LAC 123 STEKLOV
L 5 1 17 14+13M 1€2+36% 2 Can-Hab+* 11+11N 74+60% CaC 72 ELVEY NUBEL : ₩1/4 MOONS	SWING# 92. PHASE#	122. EMIS.ANG. = 35. CAM.RAD. =	5757K 9437705 279 7+6 3 90 7496+2 KH. SUN AZH=270+9 & LAC 123 STEXLOV
t 5 i 18 i4-J9n 102-35m 2 Cam-maD+= i1-iun 74-6Um Lac 72 €Evey Nubel ; wi/4 mughs	SAING= 92. PHASE=	122. EHIS+ANG. # 35. CAM+RAD+#	5758K 9439344 279 7+5 3 *+90 7497+2 KH+ SUN AZM=270+9 6 LAC 123 STEKLOV
L 5	Saing= 92. PHASE *	122. EMIS.ANG. # 35. CAM.RAD. #	5758K 9439344 279 7+6 3 -+90 7497+2 KH+ SUN AZH=270+9 6 LAC 123 STEKLOV
L 5	SWING 92. PHASE =	122. EMIS-ANG. = 35. CAM-RAD. =	5758K 9439344 279 7+6 3 -+90 7497+2 KM+ SUN A7M=270+9 6 LAC 123 STEKLOV
CAM . NAU . = 50 . 725 69 . 07 N	SWING= 26. PHASE	EUNAR ORB LO-F=BOHM B&W - NONE   119. EM15.ANG.= 57. CAM-RAD.=   LUNAR 5. HEMISPHE   LAC 140 SCHRODI	5n8n+2 KM+ 5UN A7H=336+7

TOTAL PHOTOS IN THIS GROUP . 15

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ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE MIS MAG FR. PHOTO PRIN. PT. URB GET GHT M-DA-YR CAMERA-LENS OR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. ILMES-HR M SEC SENSOR SION HULL OR LATA # HEN.MI PT. FR. LAP TYPE MAIN LONG ( =ESTIMATED) VERT K=KN•

- L 4 L LOU 42+795 54+520 29 \*\*\* \*\*\* 045917 5=23-67 LUNAR ORB HI. 610HH R6W " NONE 3012K 4937705 97 4+8 17 "+\*\*

  CAM.HAD.= 42+035 65+80W SWING= 296, PHASE= 85, EHIS.ANG.= 13, CAM.RAD.= 4751.2 KM. SUN A7M= 72.3

  LAC LIU SCHICKARU: WESTERN PART OF LAC 125 SCHILLER, I SOUTHERH PART OF LAC 92 BYRGIUS.DARWIN & LAC 174 PHOCYLIDES

- L 4 1 172 42.945 67.94W 31 \*\*\* \*\*\* 050029 5-24-67 LUMAR URB H1. 610MM R&W NONE 3011K 4936066 100 4.8 16 -->\*\*

  CAM.NAD.\*\* 41.985 79.20M SWINGE 297. PHASE\*\* 86. EMIS.ANG.\*\* 13. CAM.RAD.\*\* 4750-2 KM. SUN AZM# 73.1

  LAC 109 PIAZZI.\*\*: LAC 110 SCHICKARD : LAC 124 PHUCYLIDE : LAC 125 SCHILLER.SEGNER & EAC 91 FICHSTADT.SE.
- L 4 | 179 69:525 74:07W 32 \*\*\* \*\*\* 161924 5-24-67 LUNAR ORH HI: 610HH B6W NONE 3592K 5888525 86 3+6 7 """"

  CAM:NAD:= 71:385 96:22W SKINGE 246: PHASE= 94: EHIS:ANG:= 11: CAM:RAD:= 5331\*2 KH: SUN AZME 68:7

  LAC 136 BAILLEY:KIRCHER : LAC 143 S:HAUSEN LEGENTIL : LAC 124 PHUCYLIDES % LAC 109 P1A7ZI:V:HU
- L 4 1 180 40-835 75-22W 32 \*\*\* \*\*\* \$70054 5\*24\*67 LUNAR ORB HI: 610MH R6W \*\* NINE 3007K 49327R7 R5 4:6 16 \*\*\*\* CAM-NAD-# 42-005 85-86W SWINGE 283. PHASE\* 87. EMIS-ANG.# 13. CAM-RAD-# 4748.2 KH. SUN A7M# 74.6 CENTRAL PART OF LAC 189 PIAZZI.Y.: CENTRAL PART OF LAC 124 PHOCYLIDE : LAC 91 EICHSTADT.SF.ORIEN & LAC 110 SCHICKARD-LA
- L 4 1 193 63-895 85-97N 34 00° 0000 162428 5-25-67 LUNAR ORB HI. 610MM BEW MINE 3519K 5768852 70 408 9 --000 LAMONADOR 68-675 107-44W SWINGE 2320 PHASEM 950 EMISOANGOR 150 CAMORADOR 525802 KM SUN AZME 68-6 LAC 135 PINGRE NOHAUSEN : LAC 124 PHOCYLIDE I LAC 109 PIAZZIOVO I EAC 123 STEKEGV I LAC 143 SOHA 6 LAC 136 BAIL

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ALTI SCALE AT TILT SUN SIDE. GET GHT H-DA-YR CAMERA-LENS OR FILH-EXPUSURE MIS MAG FR.PHUFU PRIN.PT. ORB SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FAD. SION HOLL OR LAT. # TIMES-HR M SEC TYPE MeN.MI PT. FR. LAP ( =ESTIMATED) MAIL LUNG. VERT 8. 8 KPKH.

TOTAL PHOTOS IN THIS GROUP = 10

MIS MAG FR.PHOID PRIN.PT. URB GET GHT M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SIUW HOLL UR LAT. H TIMES-HR H SEC SENSOR AND FILTER TUDE PRIN. AT AUG. ANG. FOD. HIAH LUNG. 1 = ESTIMATED) TYPE HENAHI PT. FR. LAP K=KH. VERT X . 9

- L 4 | 1 | 130 | 65-025 | 25-05W | 24 | 00 | 0.00 | 161143 | 5-20-67 | LUNAR DRB HI. 610HH 866 | NONE 3575K 5860656 46 | 4-1 | 9 | -.00 |

  CAM-HAD-\* 71-035 | 40-640 | SWING= 2110 | PHASE\* 910 | EMIS-ANGO\* 130 | CAM-RAD-\* | 5314-2 KM | SUN A7M\* 69-3 |

  LAC 137 NEGION, NO 1 | LAC 136 BAILLEY, K | LAC 126 CLAVIUS, M | LAC 125 SCHILLER, SEGNER | 6 | 1AC 111 GILHELM, ELGE
- L 4 1 131 36+515 23+47H 24 ++\* ++\* + ++\* 165252 5-20-67 LUNAR URB H1+ 610MH B6N -- NONE 7999K 4916393 52 5+0 20 --\*\*

  LAM-NAD+# 42+2GS 32+12H SMINU# 251+ PHASE# B3+ EMIS+ANG+# 14+ CAM+RAD+# 4738+2 KM+ SUH AZM# 74+0

  LAC 111 mlLmtlm+ELUtH+MEE : LAC 112 TYCHU+STOFLER : LAC 93 M+HUHOR++GASSFND1 & LAC 94 FITATUS+M+NU
- L 4 I 136 42.655 27.40% 25 \*\*\* \*\*\* 695435 5-21-67 LUNAR ORB HI: 610HM 86% NONE 3003K 4927951 97 4-8 19 -.\*\*

  CANI-NAU-\* 42.165 38.84% SWING= 275. PHASE= 83. ENIS.ANG.= 13. CAM-RAD-= 4742.2 KM+ SUN AZM= 70.3

  LAC III «ILHELM-E I LAC I25 SCHILLER» I LAC I26 CLAVIUS.M I EAC 93 M.HUNOR.GASSENDI 6 EAC 94 P.ITATUS.M.NUD
- L 4 1 142 42-045 33-377 26 \*\*\* \*\*\* 165605 5-21-67 LUNAR URB HI, 610MM RGW " NONE 3007K 492950B 93 5-2 20 ".\*\*

  CAM-NAD-\* 42-145 45-586 SWING= 291. PHASE= 84. EMIS-ANG.= 14. CAM-PAD-= 4746-2 KM. SUN AZM= 70-4

  HESTERN PART UF LAC 111 OLLHELM.EL; LAC 125 SCHILLER.S; LAC 126 CLAVIUS.M; LAC 93 M.HUMDR..GASSENDT & LAC 110 SCHICKAR
- L 4 | 148 | 42.795 | 41.384 | 27 | 00 | 045722 | 5-22-67 | LUNAR URB | H. | 610MM | R64 | NONE 3009K | 4937787 | 99 | 4.6 | 18 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00
- L 4 1 155 42-415 48-69W 28 \*\*\* \*\*\* 165826 5-22-67 LUNAR ORB HI 600MM 86W NONE 3011K 4936066 95 4-3 17 --90 CAM-DAD-# 42-075 59-07W SWING= 293\* PHASE# 84\* EMIS\*ANG\*# 12\* CAM\*RAD\*# 4750\*Z KM\* SUN A7M# 72\*A CENTRAL PART UF LAC 11J SCHICKARD\*; LAC 11 WITHELM\*EL I EAC 125 SCHILLER\*; LAC 92 AYRGIUS\*\*, DARWIN & LAC 93 M\*\*HUMOR\*\*\*
- L 4 1 160 42-795 54-52N 29 \*\*\* \*\*\* 045917 5"23-67 LUNAR ORB H1. 610HM 86% NONE 3012K 4937705 99 4.8 17 -.\*\*

  CAM-HAD-\* 42-035 65-80W SWING= 296\* PHASE= 85\* EMIS\*ANG\*= 13\* CAM-RAD\*\* 4751\*2 KM\* SUN AZM# 72-3

  LAC 110 >CHICKARO : "ESIERN PART OF LAC 125 SCHILLER"; SOUTHERN PART OF LAC 97 BYRGIUS\*DARWIN & LAC 124 PHOCYLIDES

5.1	ON	KULL	-		-	IRB GET # Times=H		_	EHA-LENS OR Sensor	FILM-EXPOSURE	ALTI SCALE AT		· · · · · · · · · · · · · · · · · · ·
		#			LUNG.	(i=EST1)			TYPE	AND FILT	R TUDE PRIN. M=N.HI PT.	-	ANG. FWD.
			H			( 2 3 - 1 )					K⊕KH+ w=u+ut Li*	FR. Vent	LAP 7 8. 9
L	4	L AH+I	167 42.0 NAD.= 41.	15 6 825	0+ <sup>7</sup> 6# 72+48#	**** 5** UE	1 <sup>7</sup> 0012 2 <sup>9</sup> 2•	5-23-67 LUNAR PHASE= 86.	ORB HI. 610HI	H B&W = NE 14- CAM-RAD-:	NE 3009K 493278	7 95 5+0 SUN AZH#	
	LAC	110	SCHICKAR	in 1	FVC 10A	PIAZZI,V.	: LAC	124 PHOCYLIDE 1	LAC 125 5CH	ILLER, SEGNER	<b>€</b> 1.	AC 91 ETCHS	FADT, SE.
		CAH+	NAD 41.	985	79.20%	SWING=	297.	5-24-67 LUNAR PHASE# 86.	EHIS.ANG.=	M B&W = No 13. CAM-RAD-	NE 3011K 493686 4750+2 KM+	SUN AZH=	73+1

TOTAL PHOTOS IN THIS GROUP # 41

INESE IND SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN: • # DEGRADED PHOTOS, \$\frac{\pi}{2} \text{ALMOST UNUSABLE PHOTOS}\$

FILT ANGLES: AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS

\$\{-\rightarrow{\pi}{2}\righ

ALTE SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR GET GHT H-DA-YR MIS MAG FR. PHUID PRIM. PT. URB PRIM. AT ANG. ANG. FWD. AND FILTER TODE SENSOR TIMES-HR & SEC UH LAI» STON HULL LAP Hattatt PT. TYPE ( =ESTIMATED! LUNG. MALN 9. 8 VERT K=KM.

L 4 2 94 72-115 20-19E 18 \*\*\* \*\*\* 150008 5-17-67 LUNAR ORB LU-F=80MH 86% - NONE 3517K 43962500 103 3+7 9 \*\*\*\*

CAM-NAD-# 71-7U5 0+67% SWING= 270\* PHASE\* 90\* EMIS+ANG\*# 10\* CAM-RAD\*# 5256+2 KM\* SUN AZM# 59+4

LAC 138 MANZINUS-; W>1/2 MOON SPHERE; LAC 126 CLAVIUS+M ; LAC 144 SCOTT-S\*\*POLE NEARSIDF > 805 & LAC 145 S\*\*POLE FARSI

L 4 2 96 15+175 10+66E 18 +++ ++++ 171241 5-17-67 LUNAR ORH LO+F=80MM R64 - HONE 2722K 34025000 138 +6 22 -++87

CAM+HAD+= 14+455 9+99E SWING= 324+ PHASE= 69+ EHIS+ANG+= 2+ CAM+RAD+= 4461+2 KM+ SUN AZM= 83+2

LAC 78 FHEUPHILUS 1 W>1/2 MOON SPHERE 1 LAC 41 APENNINES, 1 LAC 26 EUDOXUS+BU4G 6 LAC 126 CLAVIUS+MAGT

L 4 2 108 19-265 2-36W 20 000 0000 171651 5-18-67 LUNAR ORB LO-F=80MM R6W - NONE 2719K 33987500 76 -5 21 --17

CAM-NAD-= 19-455 3-17W SHING= 262. PHASE= 70. EMIS-ANG.= 1. CAM-RAD-= 4458-2 KM. SUN AZM=83-8

LAC 77 PTOLUALUS, 1 W31/2 NOON SPHERE : LAC 126 CLAVIUS.M ; LAC 25 CASSINI.ALPS MTS 6 LAC 61 TARUNTIUS.LYE

L H I IIB 74-495 6-998 22 00° 0+00 160805 5-19-67 LUNAR ORH HI. 610MM B&R - NONE 3555K 5827869 107 3-0 R --00 CAM-MAD-- 71-675 26-89A 5WING= 2750 PHASE= 90° EMIS-ANG-= 90° CAM-RAD-0 5294-2 KM0 SUN AZM= 62-0 LAC I37 NEDIUM-MO : LAC I38 MANZINUS: LAC I26 CEAVIUS: H I LAC I44 SCOTT, 5-POLE NEARSIDE > 805 & LAC 145 5-POLE FARSI

MIS NAG FR,PHUTO PRIN.PT. URB GET SION KULL UR LAT. — H TIMES-H H H MAIN LONG. (F=EST)			
L 4 2 120 14-285 15-648 22 *** *** CAM-NAD-= 14-465 16-436 SAING= LAC 76 MIPHAEUS M 1 W>1/2 MOON SPHEKE	263. PHASE= 71.	EHIS ANG. 1. CAM-RAD.	4456+2 KH+ SUN AZME 85+0
L 4 1 124 43+035 14+08W 23 *** *** Camenade* 42+215 25+42W Swings Eastern Part up lac 111 atchecmee ; lac	297. PHASE# 82.	EHIS.ANG. = 13. CAM.RAD. =	4733+2 KM+ SUN AZH= 69+4
L 4   130 65-1125 25-85W 24 me* eeee Camamader 71-635 40-64W SWINGR Lac 137 heafdh,hd ; lac 136 bailley,k	211. FHASE 91.	EMISAANGA# 13. CAM-HAD-#	5314+2 KM+ SUN AZH# 69+3
L 4	: 251. PHASE #3.	EMIS-ANG. 44. CAM-RAD	4738.2 KM+ SUN &ZM+ 74+0
L 4	295. PHASE# 83.	EMIS+ANG. = 13. CAM-RAD. =	4742+2 KM+ SUN AZM+ 70+3
L 4   142 42+545 33+37W 26 *** *** Cam+440+# 42+145 45+58W SWING# MESTERM PART UP LAC 111 WILHELM+EL ; L	: 291. PHASE # 84.	EMIS-ANG. # 14. CAM-RAD. #	4746 • 2 × M • 5UN ± 7M = 70 • 4
L 4   148 42.955 41.38W 27 *** *** Can.wad.= 42.115 52.33W	297. PHASE= 84.	EMIS.ANG. =  3. CAM.RAD. =	4748+2 KM+ SUN AZM# 71+6
L 4 2 156 14•H75 55•N9N 28 ••• •••• C4N•H40•* 14•395 55•29N SWING= LAC /4 GK1NALU1•U; ₩>1/2 NOON SPHEKE	173043 5-22-67 LUNAR 321. PHASE= 74.	ORB LO.F=BOMM B&# - NON EMIS.ANG.= 1. CAM.RAD.=</td><td>E 2722K 34025000 135 +4 17** 4461.2 KH. SUN AZH= 84.7</td></tr><tr><td>( 4 % 167 42-015 60-70% 30 *** *** CAM+MAU** 41-825 72-48₩ - 5%1NG® CAC 110 SCHICNARD,CACROIX</td><td>170012 5+23-67 LUNAR 292. PHASE 86. W>1/2 MUON 5PHERE</td><td>URB LU.F=80MM 86% - NON EMIS+ANG.= 14. CAM+RAD+= 1 LAC 144 5C017+5-PULF</td><td>E 3809k 3741750D 95 5+6 17** 4748+2 km+ SUN AZM# 72+6 NFARSIDE >4 LAC 55 VASCODEGAMMA</td></tr><tr><td>€ 4 2 172 42+935 67+94h 31 ••• •••• CAM+NAD+= 41+985 79+2U# SAING EAC 1U9 PIAZZI,V-BUUVAHD</td><td></td><td></td><td></td></tr><tr><td>{ Ч г 186 чг•265 b1•34m 33 ••• •••• Сан•нар•= ч1•965 чг•48m — SwihG= Lac 104 P1aгг1•v•600Vard</td><td>2<sup>9</sup>3. РНА5<sub>1</sub>* В7.</td><td>EMIS.ANG.= 13. CAM.RAD.=</td><td>9745.2 KM. SUN AZME 74.2</td></tr></tbody></table>	

MIS MAG FR.PHUTO PRIH.PT. SION HOLL OR LATA	, UNB GET GMT M-DA-YN C N TIMES-HR M SEC	AMERA-LENS OR FILM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE. TUDE PRIN. AZ ANG. ANG. FWD.
# # MAIN LUN(	i. (imesiimateo)	TYPE	M=N+ME Pi+ FR+ LAP K=KM+ VERT %+ %
CAM+HAD+= 71+565 24+6(	IE SWING=276+ PHASE= 9	AR ORB H1. 610MM B6W - NONE U. EMIS.ANG.= 11. CAM.RAD.= 1 LAC 128 BIELA.WATT	5236+2 KM+ SUN A7M= 55+1
CAN-HAD = 42-215 27-23	SE SWING=296. PHASES 7	AR ORB HI. 610MM REW - NONE 9. EMIS.ANG.= 12. CAM.RAD.= RAB.LEVI I LAC 127 HUMMEL.VLACO	4731+2 KM+ SUN AZM= 67+2
		AR ORB HI. SIOMM REW - NOME O. EMIS.ANG.= 9. CAM.RAD.= Q : LAC 144 SCOTT,S.FOLE NE	
L 4	16 *** *** 163652 5-16-67 LUN E SWING= 297. PHASE* 8 ; LAC 114 KHEITA,JA;	AR URB HI. 610MM B&W - NONE O. EMIS»ANG.= I4. CAM·RAD·# LAC 127 HOMMEL,VL I LAC 128 BIELA.V	7972K 4872131 98 5.1 23 4711.2 KM. SUN AZM. 66.3 18 I EAC 96 ALTAI & LAC 97 FRACA
CAN-HAD-= 42-265 14-18	IE SwinG= 295. PHASE= 8	AR ORB H1: 610MM BGW - NONE D. EMIS-ANG.= 13. CAM-RAD.# EITA.JA & EASTERN FA-T OF LAC 127	4712+2 KM+ SUN AZH# 67+8
CAM+HAD+# /1+765 0+62	'N SWINGE 270. PHASEE 9	AR ORB HI: 610MM BGW - NGNE 0. EMI5-ANG.= 10. CAM-RAD.= 1 EAC 126 CLAVIUS,HAGINUS	5256+2 KM+ SUN A7M= 59+4
LAM+NAD+= 42+275 7+64	IE SAING=294. PHASE= 8	AR ORB H1. 610HH B&N - NONE  O. EMIS-ANG.= 13. CAM-RAD.=  LAC 127 HOMMEL.VL & LAC 128 F	4715+2 KH+ SUN A7H= 67+9

MIS MAG ER PHOTO PRINTET, ORB M-DA-YR CAMERA-LENS OR FILHWEXPOSURE ALTI SCALE AT TILT SUN SIDE. GŁĪ GMT UR LAI. TIMES-HR M SEC SENSUR AND FILTER TUDE PRIN. AZ AUG. ANG. FWD. : I = ESTIMATED! TYPE MAIN MEN.HI PT. FR. LONG. LAP K=KH. VFRT 8. % L 4 i 112 42+585 1=358 21 \*\*\* \*\*\*\* 044650 5-19\*67 LUNAR DRH HI, ALOMH REN - NONE 2986K 4895082 95 4+6 20 ++\*\* CAM-NAD-= 42.265 12.09% 5%1NG= 294. PHASE= 81. EM15.ANG.= :3. CAN-RAD . 4725-2 KM. SIIN A7M. 69-2 LAC 112 TYCHO, STOFLER I LAC 113 MAUROLYCUS.RAB.LEVI I LAC 126 CLAVIUS.MAGINUS 6 LAC 127 HÖMMEL.VLAC - NONE 2991K 4903279 97 4.8 20 -. \*\* L 4 1 119 42.795 /.44# 22 ... ... ... 164855 5-19-67 LUNAR ORH HI. 610HM RF# CAM+RAD+# 4730+2 KM+ SUN AZM# 69+1 S&1NG# 295. PHASE = 82. ENIS.ANG. # 10-LAM . NAD . = 42 . 265 18 . 744 LAC 112 TYCHU-STO : LAC 126 CLAVIUS-M : LAC 127 HOMMEL-VL : LAC 94 PITATUS-M-HUBIUM - & Lac 95 PURBACH+ARZAC £ 4 2 125 14.895 22.97# 23 \*\*\* \*\*\* 052314 5=20-67 LUNAR URB €0.F=80MM B6W \* NONE 2717K 33962500 170 •3 19 ~.9n CAM-NAD .= 14.405 23.06% SWING= 356. PHASE # 71. EMIS.ANG. # 1. CAM-RAD - 4456 - 2 KM+ SUN AZH= 84 - 2 LAC 76 KIPHAEUS N : W>1/2 HOUN SPHERE : LAC 128 BIELA, NAT : LAC 23 RUMKER, SHARP 6 LAC 26 EUDOXUS.BURG L 4 2 132 9.145 27.59% 24 ... \*\*\*\*\* 172507 5-20-67 LUNAR URB 10.F480MM 86% NONE 2717K 33962500 1 3.4 19 -. . . CAH.NAU. # 14.425 29.49W SWING 188. PHASES 72. EMIS.ANG. 9. 9456+2 KM+ 5UN AZH= 86+2 CAM+RAD+= LAC TO MIPHAEUS M : w>1/2 MOON SPHERE : LAC 125 SCHILLER, : LAC 39 ARISTARCHUS & LAC 75 CASSINI.ALPS E 4 2 137 14.975 35.294 25 \*\*\* \*\*\* 052651 5-21-67 LUNAR ORB LO.F#80MH B&# - NONE 2718K 33975000 119 +7 19 Saing 305. Phase 73. Emis.ang. 2. CAM+RAD+= 4457+2 KM+ SUN A7H= 84+1 CAN-HAD = 14.465 In. 34W LAC 75 LEINUMNE,F . W>1/2 MOUN SPHERE 1 LAC 136 BAILLEY.K : LAC 139 HELMHOLZ, HALE & LAC 141 RAYLEIGH £ 4 2 142 42.045 33.37# 26 \*\*\* \*\*\* 165605 5-21+67 £UNAR ORB £0.F≈80MH R6# \* NONE 3007K 37587500 93 5+2 20 CAM-HAU . # 42-145 45-58# SHING= 291. PHASE 84. EMIS.ANG. # 14. CAM - RAD + m 4746 + 2 KH + SUN A7M = 70 - 4 : LAC 144 SCOTT, S. POLF NEARSIDE >6 LAC 56 HEVELIUS. REI 1 D>1/2 MUON SPHERE LAC 111 WILHELM, ELGER, MEE L 4 2 148 42.945 41.38% 27 \*\*\* \*\*\* 045722 5-22-67 LUNAR UHB LU.F≈80MM 86% - NONE 3009K 37612500 99 4.6 18 -. . . CAM.NAD. = 42.115 52.33W SAING# 297. PHASE 84. EMIS.ANG. 13. CAM-RAD. 4748.2 KH. SUN AZHE 71.6 LAC 110 SCHICKARD, LACRUIX : W>1/2 HOON SPHERE I LAC 144 SCOTT, S. POLE NEARSIDE >4 LAC SA HEVELIUS. REI - NONE 3011K 37637500 95 4+3 17 --\*\* CAM-HAD-= 42-175 59-07m SWING= 293. PHASE= 89. EHIS.ANG.= 12. CAM+RAD+# 4750+2 KH+ 5UN AZM= 72+8 I LAC 144 SCOTT.S.POLF NEARSIDE >6 LAC 56 HEVFLIUS.REI LAC 11d SCHICKARD. LACROIX 1 M>1/2 HUUN SPHERE - NOHE 3519K 439A7500 70 4.8 9 -.\*\* CAM . HAD . = 68 . 875 187 . 44W Saing# 232. PHASE= 95. EMIS.ANG. = 15. CAM + PAD + = 5258 + 2 KH + SUN AZM# 68+6 LAC 135 PIHGRE H. HAUSEN . i ω>1/2 MOUN SPHERE ; LAC 139 HELNHOLZ, i LAC 90 LO#EII . i LAC 74 GRIMA & LAC 127 HOMM

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAHERA-LENS OR GET GHT H-DA-YR HIS MAG FR.PHOTO PRIN.PT. ORB AND FILTER TUDE FRIN. AZ ANG. ANG. FWO. SENSOR TIMES-HR M SEC SION ROLL OR LAT. # M=N+MI PI. FR. LAP TYPE LUNG. (imtSliMaled) MAIN VERT K. S K=KM. NONE 3505K 5745902 98 2+3 8 --\*\* L 4 1 325 71.405 77.79E 8 \*\*\* \*\*\* 154747 5\*12-67 LUNAR ORR HI. 610HM Bow

- 4 1 32% 71.4455 77.79€ 8 \*\*\* \*\*\* 154747 5~12~67 LUNAR ORB HI. 610HM B6W NONE 3505K 5745902 9% 2°3 B °°'. Cam.Nad.\*\* /1.245 63.03E SWING\* 266. PHA5E\* 88. EMI5.ANG.\*\* 7. CAM.RAD.\*\* 5244.2 KM. SUN AZM\* 63°1 UEGRADED NEGALIVE ; LAC 139 BELMHOLZ, ; LAC 129 H.AUSTRAL ; EAC 128 BIELA, BATT & LAC 144 5COTT, 5.POLE

- L 4 2 53% (4-815 56-82E 11 400 0000 050729 5-14-67 LUNAR ORB LO-F-80HH 86N NONE 2740K 3425UNDU 122 05 25 --56

  CAN-HAD-- 14-415 56-14E SWING-308- PHASE- 66- ENIS-ANG-- 1- CAM-RAD-- 4479-2 KM- 50N A7M- 82-4

  DEGKADED NEGATIVE: LAC 80 LANGRENUS,: LAC 44 CLEUMEDES,: LAC 128 BIELA, WATT 6-1, AC 64 NF. SMYTHII HE
- L 4 | 59 410755 55005E 12 000 0000 163122 5-14-67 LUNAR ORB HI 610MM RGW NONE 2975K 4877649 87 306 22 -000

  CAMONANO 420115 44079E SWING= 287 PHASE= 78 EMISOANGO= 100 CAMORADO= 471402 KM0 SUN AZM= 6805

  LAC 114 KHEITAJA : LAC 115 FURNÉRIUS : LAC 128 BIELAGOAT : LAC 129 NOAUSTRALEGLYOT 6 LAC 98 PFTAVIUS, HOLD
- L 4 44.565 50.55E 13 \*\*\* \*\*\* 04323G 5-15-67 LUNAR ORB HI. 610MM RGW -- NONE 2973K 487377O 96 4.4 23 --\*\*

  CAN-HAD-- 42.145 40.27E 581NG# 294. PHASE= 79. EMIS-ANG-= 12. CAM-HAD-# 4712.2 KM- SUN AZM# 67.0

  LAC 114 HHLITA:JA 1 LAC 115 FURNERIUS 1 LAC 128 BIELA:WAT 1 LAC 129 M:AUSTKALE:LYOT 6 LAC 97 FRACASTORIUS.
- 4 1 70 72-655 49-06E 14 ++\* +-\* 155335 5-15-67 LUNAR ORB HI+ 610MM B6W NONE 3497K 57327A7 109 3+7 10 -+\*\*

  CAN-HAD-= 71-565 24-6DE SWING= 276+ PHASE= 90+ EMIS-ANG== 11+ CAM-RAD+# 5736+2 KM+ SUN AZM= 55+1

  LAC 13B MANZINUS+ I LAC 139 MELMMOLZ+ I LAC 127 MOMMEL+VL I LAC 128 BIELA+MATT 6 LAC 144 5COTT+5+POLE
- L 4 | 71 | 43.695 | 46.67E | 14 | 6.0 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00

ALTI SCALE AT TILI SUN SIDE. FILM-EAPOSURE GET GMT M-DA-YR CAMERA-LENS ON HIS HAG FR.PHUTU PRINAPT ORB AND FILTER TUDE PRIN. AT ANG. ANG. FAD. SENSOR SION HOLL OH EAT. # TIMES-HR M SEC M=N.HI PT. FR. I. AP TYPE (i=ESTIMATEU) LUNG. MAIN VERT K FK M . - NONE 2732K 34150000 131 1+2 24 -+70 € 4 2 72 15•765 37•86€ 14 ••• •••• 170548 5=15=67 LUNAR ORB LO•F#80HH 86% CAMINADIA 14.505 36.35E SHINGE 316. PHASE 68. EMISANG. 3. CAM.RAD. 4471.2 KM. SUN A7M# 82.2 & LAC 114 RHETTA JANSS LAC 79 CULUMBULNE : WOLZ MOUN SPHERE : LAC 43 MACROBIUS, : LAC 80 LANGRENUS, M. FERT. - NONE 2972% 4872131 97 4.5 22 -.\*\* L 4 1 76 42-775 37-87E 15 \*\*\* \*\*\* 043514 5-16-67 LUNAR URB HI. 610MH No# CAM+RAD+# 4711+2 KH+ SUN AZH# 67+2 PHASE= 79. EMIS.ANG.= 12. CAM+HAD+= 42+215 27+23E SW1HG= 296+ E LAC 128 BIFLA: #ATT : LAC 113 MAUROLYCUS, RAB.LEVI : LAC 127 HONNEL, VLACO ENC 114 MHELTA JANSSEN - HONE 3503K 5742823 ED6 3.1 9 -1.44 2 4 3 42 /2.375 32.47€ 16 ••• •••• 155638 5-16-67 LUNAR URA HI. 610MM Bo# CAM+RAD+# 5242+2 KM+ 5UN AZM# 59+4 PHASE 90. EHIS.ANG. 9. CAM.HAU. # /1.625 12.04E Sain6 = 273. 1 LAC 144 SCUTT.S.POLE NEARSIDE >6 LAC 145 S.POLE FARS ; LAC 127 HOMMEL. VLACO LAC 130 MANZIHUS. SCHMBGER

- L 4 2 119 42+785 7+44W 22 \*\*\* \*\*\* 164855 5=19+67 LUNAR ORB LOIF#BOMM BOW -- NONE 2991K 37387500 97 4+8 20 -- CAM+NAD+# 42+65 18+74W SWING# 295+ PHASE# 82+ EMIS+ANG+# 13+ CAM+RAD+# 4730+2 KM+ SUN AZM# 69+1 LAC 112 TYCHU-STOFLER 1 WSI/2 MUON SPHERE 1 LAC 144 SCOTT#S-POLF NEARSIDE >& LAC 58 COPERNICUS+R
- L 4 2 131 36+565 23-47# 24 ••• ••• 165252 5~20-67 EUNAH ORB LO-F=POMM B6# -- NONE 2999K 37487500 52 5+0 20 --62 Cam-had-= 42-205 32-12# 5%ING= 251. PHASE= 83. EM15-ANG.= 14. CAM-RAD-= 473<sup>8</sup>-2 km. 5UN AZM= 74-0 LAC 111 #ILHLLN-ELGER-MEE : 10>1/2 MUUN SPHERE : 1 LAC 144 5CUTT-S-POLE NEARSIDE >6 LAC 57 KEPLER-ENCKE
- L 4 2 136 42+645 27+40# 25 \*\*\* \*\*\* 045435 5-21-67 LUNAR ORB LOFF#BOMM B&# NONE 3703K 37537500 97 4+B 19 -+\*\*

  CAN-HADI\*\* 12+165 38+84# SKINGR 295+ PHASE\*\* 83+ EMIS+ANG\*\*\* 13+ CAM+RAD\*\*\* 4742\*Z KM+ SUN A7M\*\* 70+3

  LAC 111 HICHELM, ELGEN, MEE : W>1/2 MOUN SPHERE 1 LAC 144 SCOTT+S\*POLE NEARSIDE >A LAC 57 KEPLER, ENCKE
- L 4 & 166 71-315 60-236 30 \*\*\* \*\*\* 161844 5-23-67 LUNAR ORB LO-FEBRING REW HONE 3593K 44917500 101 3-4 7 --\*\*

  CAM-HAD-- 71-195 82-44W SWINGE 264- PHASE= 93- EHIS-ANG-= 10- CAM-RAD-= 5332-2 KM- SUN AZM- 66-4

  LAC 136 DAILLET-K : W>1/2 MOON 5PHERE ; LAC 129 M-AUSTRAL : LAC 73 HICCIDEL-NE-URIENTAL 6- LAC 93 M-HUMOR--GASS

## LAC 128 BIELA.WATE

PAGE 365

510	H HULL		LAI.		8 GE: 	M SEC	•	SENSOR TYPE	+ 1 C m = 1	=	TUDE H=N+H1 K#KH+	PRIN. PT.		ANG. ANG. FR. VERT	
ر 4	CAH.	PL = (IAH	٠.35 97٠	528	Saines	269.	PHASE = 113	R UHB HI. 610MM • EMIS.ANG.= 3 LAC	) U •		7529 • 2	KM•	5 U N	A2M=275+R	
و 4	LAM.	HAD .= J4	. 355 9/.	52Ł	Swing.	269.	PHASE# 113	R ORB HI. 610MM . EMIS.ANG.= 3 ; Lac	30,		7529+2	кн•	รยพ	A2H=275.9	

TUTAL PHOTUS IN THIS GROUP # 23

THESE THU SYMBULS NEXT TO MAIN OR PHOTO NUMBER MEAN: A # DEGRADED PHOTOS, \$ ALMOST UNUSABLE PHOTOS, THE ANGLES: AZIMUTH OF DIRECTION OF THETRAZY & VERTICAL TO CAMERA AXIS

(-),(+),(+),(+), (+), OHIO) # NO INFO # APPROXIMATELY NEXT TO MAGE, B # BRACKET HOUSTEDS G # CAM. ON GROUND

CAMERA-LERS AS FULLOWS: SW.A. # SUPER WIDE ANGLE LENS! EKTEREKTAR 2.8 LENSS

BSB # MASSELBLAD: MAURE MAURER: ZP,ZB,ZS # ZEISS LENS(PLANAR, BIOGEN, SONAR); FOCAL LENGTH(MM) & MAX,F-OPENING

TOWAS EAPOS SPEED # 1/1000 (OR \*\* TWO ZEROS)

FOR LUMAR ORBITER & SFIER ALTITUDE EMURES KILOMFTERS

CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTOL SCALE 15 THE XXX OF LXXXX ON ORIG. HEG. AT PP IF ALT NOT OAG

ALTI SCALF AT TILT SUN SIDF. MIS MAG EN PHOTO PRINTER ORB GET GMT M-DA-YR CAMERA-LENS OR FILM\_EXPOSURE AND FILTER TUDE P'IN. AT ANG. ANG. FWO. TIMES - HR H SEC SENSOR SIUN RULL OR LAT. FR. LAP TYPE M=N+HI PT. ( = ESTIMATED) MAIN LONG. K=KH+ VERT

- L 4 | 5 71.505 91.31E 6 \*\*\* \*\*\* 15461B 5-11-57 LUMAR ORB HI. 610MM R&W NONE 3513K 5759016 100 2:4 9 --\*\*

  CAM-HADI-# /1.235 76:27E SOLING# 267: PHASE# BR. ENIS-ANG.# 7: CAM-RADI-# 5252:2 KM: SUN A7M# 61:8

  LAC 130 E-MAN AUSTRALE, PRIESTE: LAC 129 M-AUSTRALE, 1 YOT & LAC 144 5COTT, 5-POL
- L 4 L 6 71-175 91-33E 6 \*\*\* \*\*\* 15462B 5-11-67 LUNAR URB H1. 610MM B6A NONE 3510K 575409B 97 2-4 9 --90

  CAM-HAD+= 71-135 76-36E 5-1NG= 265- PHASE= 86- EHIS-4NG-= 7- CAM-RAD-= 5249-2 KH- SUN AZH= 61-9

  LAC 139 HELMHULZ-HALE : LAC 129 M-AUSTRALE-LYOT & LAC 144 SCOTT-5-FUL
- L 4 1 B 70+495 91+35E 6 404 +040 15464B 5-11-67 LUNAR URB HI 610MM R6% NONE 3505K 574590Z 9Z 2+4 9 ++98 LAM-HAD-= 7J-915 76+54E SWING= Z60+ PHASE= BH, EMIS-ANG+= 7+ CAM-RAD-= 5244-Z KM+ SIN AZM= 61+9 LAC 139 HELMHULZ-HALE : 1 LAC 129 M+AUSTRALE-LYOT & LAC 144 5COTT+5+PCL

- L 4 1 10 41-425 96-19E 6 \*\*\* \*\*\* 162648 5"11-67 LUNAR ORB H1. AIDMH B6W NOHE 2987K 4896721 89 4-3 25 --90
  LAN-HAD-= 41-885 86-30E 581NG= 287. PHASE= 76. EMIS-ANG== 12. CAM-RAD-= 4726-2 KM- SUN AZM= 55-2
  LAC 116 4-AUSTRALF LAC 99 HUMBOLT-GI : LAC 100 CURIE : LAC 129 M-AUSTRALF LYOT & LAC 130 F-MAR AUSTRA
- L 4 | 12 40+675 96+18E 6 \*\*\* \*\*\* \*\*\* 1627UB 5-11-67 LUNAR URB HI + 610HH B6W NONE 7984K 4891BD3 R6 4+3 25 -+90

  CAN+HAD+= 41+615 86+34E SWING= 283+ PHASE= 76+ EMIS+ANG+= 12+ CAM+RAD+= 4723+2 KM+ SUN AZM= 65+6

  LAC 116 H-AUSIHAE | LAC 99 HUHBULT+GI | LAC 800 CURIE | LAC 129 H+AUSTRALE+LYOT 6 LAC 130 E+MAR AUSTRA
- 1 4 2 19% 15.03% 90.51E 6 ... \*\*\* \*\*\*\* 173017 5-11-67 LUMAR ORB LO.FEHOMM BON NUNE 2740K 34750000 312 .8 28 -. 3

  CAM-NAD-= 14.19% 91.48E SWING= 126. PHASE= 66. ENIS.ANG.= 2. CAM-RAD-= 4479.7 KM. SUN A7M= 98.0

  DEGRAUED NEGATIVE: LAC 64 NE.SMYTHII: WI/4 MOUNS SPHERE: LAC BI ANSGARIUS.N.M.SMYTHI G LAC 129 M.AUSTRALF.L

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		•	
MIS MAG FR.PHUTU PRIN.PT. ORB Sion Rull Or Lai. # # Hain Long. #	GET GHT M=DA=YR CAMI TIMES=HR M SEC (!=ESTIMATED)	ERA-LENS OR F.LM-EXPOSURE SENSOR AND FILTER TYPE	ALTI SCALE AT TILT SUN SIDE, TUDE PRIN. AZ ANG. ANG. FND. H#N.HI PT. FR. LAP K=KH. VERT R. 8
	SAING 266. PHASE AR.	FMIS.ANG.= 7. CAM.NAD.=	3505k 57459D2 98 2.3 8** 5244.2 KM. SUN AZH* 63.1 6 LAC 144 SCOTT.5.POLE
CAM+HAD+# 42+025 73+04E	SWING= 289. PHASE= 77.	EHIS ANG = 13. CAH RAD =	2985K 4893443 92 4+7 25 -+** 4724+2 KH+ SUN AZH= 64+9 ASTERN PAPT OF LAC 129 M+AUSTRALF
LAM+HAD+= 42+425 66+45E	5W1RG= 295. PHASE= 78.	EMIS.ANG. = 13. CAM.RAD. =	2982K 4888575 98 4.8 24 4721+2 KH+ SUN AZHW 64+8 -GIBBS 6 LAC 98 PETAVIUS,
CAM # HAD * # 42 + 615 66 + 45E	SNING= 295. PHASE= 78.	EN15+ANG.= 13. CAM+RAD+*	2982% 37275000 98 4.8 24 4721-2 KH- SUN AZH= 64-9 6 LAC 80 LANGRENUS, M.F
LAM+HAU+= 71+275 50+06E	SWING 275. PHASE 89.	EHIS+ANG+* 9+ CAM+RAD+#	3498K 5734426 107 3+0 9 5237+2 KH+ SUN AZH= 57+6 805 & LAC 145 5+POLE FARST
SAM-HAD. # 42.045 59.88E	Swing= 293. PHASE= 78.	ORR HE, SLOMM BEW "NONE EMIS-ANG. 14. CAM-RAD. 2 5 S. E. PART OF LAC 9R F	2979k 48836n7 76 5.1 25** 4718+2 кн+ — SUN дZH# 64+7 РЕТАVIUS+HOLDFN
L 4 1 52 92-915 63-81E 11 • CAM-HAD-# 4265 53-33E LAC 115 FURNERIUS,UKEN : LAC 1	5WING= 297. PHASE= 78. 128 BIELA, WATT : LAC 129	ORB HI» 61DMM A&W — NONE EHIS•ANG•= 12, CAM•HAD•= M•AUSTRAL : LAC 114 RHEITA•JA 1,	2976K 4878689 99 4+5 23 -+++ 4715+2 KH+ SUN AZH≃ 66+0 50UTHERN PART OF LAC 98 PETAV1U5,H
	SHING# 269. PHASE# 89.	EMIS+ANG. = 8. CAM+RAD+#	3494K 5727869 END 2+7 9** 5233+2 KM+ SUN AZM+ 62+6 6 EAC 144 SCOTT+5-POLE
CAM - NAD - # 42 - \$15 46 - 79E	SAING# 287. PHASE= 78.	ENIS-ANG. = 10. CAM-PAD. =	2975K 4877649 89 3.6 22
CAM-HADEM 42-145 40-27E LAC 114 KHEITA-JA 1 LAC 115 FUR	SWING= 294. PHASE= 79, RHERIUS ; LAC 128 BIELA, MAT ;	EMIS-ANG.= 12. CAM-GAD.= LAC 129 H.AUSTRALE.LYOT	6 LAC 97 FRACASTORTUS.
CAM+HAD+= 42+225 33+74E	SWINGS 301. PHASE # AC.	EMIS+ANG.= 15. CAM-RAD+=	2972K 4872131 103 5.5 24 +.** 4711.2 KM+ SUN AZM# 64.7 6 LAC 97 FRS(4STORIUS.

L 4 2 62 72-375 32-4AE 16 \*\*\* \*\*\* 155638 5-16-67 LUNAR ORB LO-F-BOMM BEW - NONE 3503K 43787500 106 3+1 9 -.\*\*

CAN-HAD-- 71-625 12-04E SWING= 273. PHASE= 90. ENIS-ANG.- 9. CAH-RAD-- 5242-7 KH. 500 A/M= 59-4

LAC 138 DANZIBUD-: ->1/2 DOUB 5PHERE: LAC 140 SCHRODING: LAC 131 PRANDTL PLANK E EST 129 H-AUSTRALE-A

L 4 2 104 35-105 67-32E 33 \*\*\* \*\*\* 013032 5-25-67 LUNAR ORB LO-F-80MB BER

CAM-HAD-# 34-035 97-52E 5.1NG= 269. PHASE= 113. EMIS-ANG.= 30.

LAC 115 FURDERTUS : WELZ MOUN SPHERE : LAC 114 RHEITA, JA ; LAC 61 TARUNTTUS, LYELL

- NONE 579AK 72374999 259 A+6 7 ----

& LAC 44 CLEOMEDES M.C.

CAM+RAD+# 7529+2 KM+ 50N A7M#275+8

MIS MAG FRAPHULU PRINAPTA URB GŁĪ GMI N-DA-YR CAMERA-LENS OR F11 M=EXPOSURE ALTE SCALE AT TILT SUN SIDE. UH LAI. M TIMES-HER M SEC SENSOR PRIN. AT AUG. AUG. FRO. AND FILTER TUDE MAIN TYP+ LUNG. (IEESTIMATED) MEN.MI PT. FR. LAP K-KM. VERT 88 42+695 24+94E 17 \*\*\* \*\*\*\* 043838 5\*17-67 LUNAR ORB LO-F#80MM BAN \* NONE 2973K 37162500 96 4+6 22 -+\*\* SWING= 295. PHASE= 80. EMIS.ANG.= 13. CAM + HAD - = 42 - 265 14 - 18E CAM+RAD+= 4712+2 KM+ SUN A7H= 67+8 : WOIZ MOUN SPHERE: LAC 140 SCHRODING: LAC 129 M.AUSTRA: LAC 79 COLOH & LAC AO J.CAE LAC 113 MAURULTOUS.RAD.LEVI £ 4 2 95 42.535 18.70€ 18 0.0 \*\*\*\* 164034 5=17-67 LUNAR ORB LO.F=80HH BAN - NONE 2975K 3718750H 95 4.7 22 ----CAM-8125 -= 42+275 7+64E SHING= 294. PHASE= 80. EHIS.ANG.= 13. CAM+RAD+# 4714+2 KM+ 5UN A7M= 67+9 LAC 113 MAUNULYCUS . RAB . LEVI : WOIZ MOUN SPHERE : LAC 140 SCHRODING : LAC 129 M.AUGTRA : LAC 78 THEOP & LAC 112 TYCH L 4 4 100 44-715 12-29E 19 \*\*\* \*\*\* 044237 5\*18-67 LUNAR ORB LO.F#BOMM BEN - NONE 2978K 37225000 96 448 21 -+\*\* CAHANADAS 92.255 LANSE 5winG\* 295. PHASE AL ENISANCE 13. CAM+RAD -- 4717+2 KM+ SUN AZMm AB.1 LAC 113 HAURULYCUS. HAB. LEVI : D>1/2 HOUN SPHERE : LAC 140 SCHRODING : LAC 127 H.AUSTRA : LAC 77 PTOLM & LAC AD LANGR £ 4 4 106 72-165 9-45E 20 \*\*\* \*\*\* 168405 5-18-67 LUNAR ORB LO-F#888M BAN - NONE 3534K 44175000 104 3.4 9 -.\*\* CAM-HAD-# /1-/15 13-37W SWING= 272. PHASE # 90. EMIS-ANG. = 10. CAM+RAD+# 5273+2 KH+ SUN AZH# 58+0 LAC 137 NEGION-NO : NO 1/2 MODE SPHERE : LAC 129 M.AUSTRAL : LAC 131 PRANDIL PLANK 6 LAC 144 SCOTT, S. POLE L 4 2 107 42.405 6.45E 20 \*\*\* \*\*\* 164442 5-18-67 LUNAR ORB LO.F. BOMM REA - None 2982K 37275000 94 5+0 22 --+\*\* LAM-NAD-# 42-265 5-42% 5 n i N G = 293 . PHASE= 81. EHIS.ANG. = 14. CAM+RAD+# 4721+2 KH+ SUN A7H# 67+9 LAC IIZ IYCHU.STBELER : W>1/2 MUON STHERF 1 LAC 59 M.VAPORUM.HYGINUS & Lac 29 COLOHRO, NE . H L 4 2 130 65-025 25-85W 24 \*\*\* \*\*\* 161143 5-20-67 LUNAR ORB CO.F = HOMN REA MONE 3575K 44687500 46 4.1 9 -... CAN-NAD-= 71-625 40-646 Swings 211- PHASES 91. FHIS.ANG. 13. CAM+RAD+= 5314+2 xH+ SUN AZM= 69+3 LAC 137 HERIUH.NO : WOI/2 NOON SPHERE : Lar 131 PRANUTL : LAC 93 M.HUNOF. GASSENDI & LAC 113 MAUROLYCUS.R L 4 4 154 71.705 33.524 28 \*\*\* \*\*\* 171555 5-22-67 LUNAR ORB LO.F#HOMN BAR \* TINNE 3613K 451625AB INS 5.2 11 -. \*\* CAREMADO # 12-075 69-24W SAIRG 268. PHASE# 94. EMIS.ANG. # 16. CAM+RAD+# 5352+2 KH+ SUN AZH# 52+2 LAC 137 HENTUNING: WIZE MUONS SPHELE; LAC 129 HIAUSTRAL: LAC 74 GRIMALDI BILLY F LAC 93 MaHUHOR. GASS E 9 4 100 /1-315 60-23# 30 \*\*\* \*\*\*\* 161844 5-23-67 LUNAR ORB CO.F=80HM B&M \* NONE 3593K 44912500 101 3+4 7 ++\*\* CAN-440- 71-195 82-445 SAING= 264. PHASE 93. EMIS.ANG. 10. CAM+RAD+= 5332+2 KH+ SUN AZH= 66+4 LAC 136 BAILLEY.R : W>1/2 MOON SPHERE : LAC 129 M.AUSTRAL : LAC 73 RICCIOLI, NE. ORIENTAL & EAC 93 M.HUMOR.,GASS L 4 2 179 69-525 74-07W 32 \*\*\* \*\*\* 161924 5-24-67 LUNAR ORB E0.F#ARM BEW - NONE 3592K 44900000 85 3.6 7 -. \*\* CAN-MAD = /1.385 94.226 Saing 246. PHASE 94. ENIS.ANG. 11. (AH+RAD+= 5131.2 KM. SUN 47Ma 68.2 LAC 136 DAILLEYOR I WOIZ NOON SPHERE : LAC 129 MONUSTRAL : LAC 108 MORIFWISH 1/3 W) 6 1/6 93 H.HUMOR. GASS L 4 1 144 35-185 69-32E 33 \*\*\* \*\*\*\* 013032 5-25-67 EUMAR DRB HI . AIDMN REA \* NORE 5790K 9491803 259 A+A " ++\*\* EAM+HAD+= 39+035 97+52F SWING = 269. PHASE = 113. EMIS.ANG. = 30. CAM - RAD - = 7529 - 2 KH - SUN AZH = 275 - 8 LAC 115 FURNIBLIUS OKER : WI/4 HOUNS SPHERE I LAC 62 T. UNDARUM. S. CRISTUM . A LAC 63 HEFER. SCHURE

MIS MAG FR.PHOTO PRIM.PT. ORB GE T GMT H-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTE SCALE AT TELT SUN SIDE. SION HOLL OH LAT. # TIMES-HR M SEC SENSOR AND FILTER TUDE PRIM. AZ ANG. ANG. FWD. HAIH LUNG. ( = ESTIMATED) TYPE M=N.MI PT. FR. LAP KaKN. VERT 8, 8

L 4 2 135° 35°275 69°30E 33 °°° °°° 013036 5~25~67 LUNAR ORB LO•F¤80MM B&W - NONE 5790K 72374999 258 6°6 7 --°° Lad 115 Furnerius : W>1/2 hour sphere : Lac 114 Rheita, Ja : Lac 44 Cleuredes, M, Cris, & Lac 129 M, Australe, L

TOTAL PHOTOS IN THIS GROUP = 34

MIS MAG FR. PHULO PRIN. PT. URB GET GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION ROLL иH LAÎ. TINES-HR H SEC SENSOR AND FILTER THOE PRIN. AZ ANG. ANG. FND. MALIE [ \*ESTIMATED] LUNG. TYPE MaN.MI PI. FR. LAP K=KM. VERT 8 8

- L 4 I 5 71.505 91.31E 6 \*\*\* \*\*\* 154618 5=11-67 LUNAR URB H1. 610HH B&N -- NONE 3513K 5759016 100 2.4 9 -,\*\*

  CAM: HAD: # 71.235 76.27E 581NG= 267. PHASE= 88. EMIS: ANG. = 7. CAM: RAD: = 5252.2 KM. SUN AZM= 61.8

  LAC 139 HELMHULZ: HALE I LAC 130 E: HAR AUSTRALE: PRIESTL: LAC 129 M: AUSTRALE: LYOT & LAC 144 SCOTT: S: POL
- L 4 I IU 41-425 96-19E 6 \*\*\* \*\*\* 162648 5-11-67 LUNAR URB HI 610MM B6W + NONE 7987K 4896721 87 4-3 25 -.90
  CAM-NAD-= 41-885 66-30E 5WING= 287\* PHASE= 76\* EMIS-ANG= 12\* CAM-RAD-= 4726-2 KM\* SUN A7M 65-2
  LAC 116 M-AUSTRAL: LAC 99 HUMBOLT-GI: LAC 100 CURIE : LAC 129 M-AUSTRALE-LYOT & LAC 130 E-MAR AUSTRA
- L 4 | 12 40.675 96.18E 6 \*\*\* \*\*\* 162708 5-11-67 LUMAR ORB HI. 610HM B&W NONE 2984K 485 203 86 4.3 25 -.90

  CAM-MAD. 41.615 86.34E SWING 283. PHASE 76. EMIS.ANG. 12. CAM-RAD. 4723.2 KM. SUN A7M 65.6

  LAC 116 0.AUDIRAL; LAC 99 HUMBULT.GI; LAC 100 CUMIE; LAC 129 M.AUSTRALE.LYOT & LAC 130 E.MAR AUSTRA

TOTAL PHOTUS IN THIS GROUP =

ALTI SCALE AT TILT SUN SINF. CAMERA-LENS OR £11 H→EXPOSURE MIS MAG ER, PHOTO PRIN, PT. URB GET GMT M-DA-YR PRIN\_ AZ AHG, ANG, FAD. SENSOR AND FILTER TUDE TIMES-HR H SEC UR LAI. STOR ROLL LAP TYPE MEN.MI PT. FN. ( I = LST | MATED) MAIN 1.01 VERT 8. 8 K=KM.

- L 4 2 94 72-115 20-19E 18 \*\*\* \*\*\* 160008 5\*17-67 LUNAR ORB LO-F#HOMM REW NONE 3517K 43962500 103 3+2 9 --\*\*

  CAN-NAU-= 71-705 0-67W SWING# 270\* PHASE# 90\* EM[5-ANG-\* 10\* CAM-RAD-# 5256+2 KM\* SUN AZM# 59\*4

  LAC 138 MANZINUS, 1 @>1/2 000N 5PHERE 1 LAC 126 CLAVIUS-D : LAC 144 5CUTT-5-POLE REARSIDE > 865 & LAC 145 5-POLE FARS!
- L 4 2 118 72-495 6-998 22 \*\*\* \*\*\* 160805 5-19-67 LUNAR ORB LO.F.B.GMM R.G.W -- NONE 3555K 44437500 107 3°D 8 --\*\*

  CAM-HAD-- 71-675 26-89W SAING- 275- PHASE- 90. EMIS-ANG.- 9. CAM-RAD-- 5294-2 KM. SUN A7H= 62-0

  LAC 137 NEHTUN-NO I W->1/2 MOON SPHERE I LAC 131 PRANDIL : LAC 116 H-AUSTRALE-JENNER 6 LAC 94 PITATUS-M-NUR
- L 4 2 123° 1•13N 162-3RE 22 ••• •••• 232754 5~19~67 LUNAR URB LO.F #8DMM R6N NONE 6151K 76RR7499 44 •4 •• •,•• LANGHAD+# •JU 161•26E SWING# 64• PHASE# 111• EMIS•ANG•# 2• CAM\*RAD•# 7.9D•2 KM• SUN A7M#271+1 LAC 67 SPENCER : LAC 131 PRANDIL : LAC 6 : FARTHS SPHERE 6 FAC R2 SF•M•SMYTHI•P

TOTAL PHOTOS IN THIS GROUP = "

HIS MAG FR. PHOID PRIN. PT. ORB GET GHT H-DA-YR CAMERA-LENS OR SION HOLL OR LAT. FILM-EXPOSURE ALTE SCALE AT TILT SUN SIDE. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. MAIN LUNG. CI=ESTIMATED] TYPE MEN.M1 PT. FR. LAP K=KM. VERT

- L 5 2 65° 48°775 168°61N 35°°°° 0°°° 114922 8-12-67 LUNAR ORB LO,F#80HM 86N ~ NONE 1192K 14900000 246 19°9°° -,\*°

  CAM-MAD-# 44°725 147°27N SWING# 83° PHASE= 128° ENIS\*ANG\*# 35° CAM-RAD\*# 2931°2 KM° SUN AZM#268°0

  LAC 133 LENATIKE 1 W174 MUONS SPHERE: LAC 121 APOLLO 1 LAC 120 OPPENHE1MER 6 LAC 132 ABBE\*HESS

TUTAL PHOTUS IN THIS GROUP . 2

ALTE SCALE AT TILT SUN SIDE.

5UN AZM-268.1

A LAC 12D OPPENHETHER

2931 . 2 KM .

CAM . RAD . ..

GE I

Saluc= 82.

DEGRADED REGALIVE : N. W. PART OF LAC 133 LEMAITRE : N. E. PART OF LAC 137 ARBE, HESS

H-DA-YR

641

THESE THE SYMBOLS NEXT TO MAIN OR PHOTO NUMBER HEAM: DEGRADED PHOTOS\_ TE ALMOST UNUSAMLE PHOTOS. TILL ANGLES: AZIHUTH OF DIRECTION OF TILTCAZI & VENTICAL TO CAMERA AXIS (=),(+),( ), OH(C) = NU THEO W = APPRUXIMATELY NEXT TO HAGE, B=BRACKET MOUNTED; G= CAM, OH GROUND CAMERA-LENS AS FULLU#5: SW.A. & SUPER WIDE ANGLE LENS: EKIRAEKTAR 2.8 LENS: HSB# HASSFEBLAD: HAUNG MAURER: ZP,ZB,ZS # ZFISS LFNStPLANAR.BIOGEN.SONART: FOCAL LFNGTH(MM) & MAX.F-OPENING TU. AS EXPOS SPEED # 1/1000 (OR \*\* TWO ZEROS) FOR LUNAR URBITER K AFTER ALTITUDE EQUALS KILOMETERS CULUMN MEADINGS APPLY TO FIRST WATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINES. AT PP IF ALT NOT O.D

FILM-EXP.)SURE MIS MAG FR. PHUTU PRIN. PT. URB PRIN. AT AUG. AUG. FWD. UR LAT. TIMES-HH M SEC SEHSOR AND FILTER TUDE SION ROLL ( eESTIMATED) TYPE M=N.MJ PT. FR. LAP HAIH LUNG. K=KHa VERT 8. 7 26 27.655 125.06m 7 ... . . . 014205 8-08-67 LUNAR URB H1. 610MM R6% NONE 5069K 8304836 258 9+4 5 PHASE= 125. EMIS.ANG.= 40. LAM . HAD . # 25 . 625 96 . 85% Salnus 89. CAM+RAD - w ABU8.2 KM. SUN AZMEZ/4.4 LAC 107 ELEEKHAM : WIZA HOONS SPHERE : LAC 70 Non-HERIZS : LAC 71 Noe-HERIZSPRONGOGRIGG HUMANITION PEL SAL 3 43% 47.535 151.45W 25 \*\*\* \*\*\*\* D35821 8\*11-67 LUNAR DRB HI. 610MM RSW NAME 1191K 1952459 252 20+2 \*\* LAH.HAD. # 44.695 129.44W SWING= 90. PHASE = 130. ENIS.ANG. = 36. CAM+RAD = 2930+2 KH+ SUN A7H=267.4 DEGRADED REGALIVE: SOUTHERN PART OF LAC 121 APOLLO & NORTHERN PART OF LAC 133 LEMATTRE NOWE 1191K 14887500 252 20+2 \*\* € 5 2 43 47.435 151.42w 25 \*\*\* \*\*\*\* 035821 8\*11-67 LUNAR ORB LU.F±80MM B&M SHN AZM#267.4 Sw1NG= 91. 2930.2 KH. CAM.HAD. = 44.965 129.44m PHASE # 130. EMIS.ANG. # 36. LAC 121 APULLU I WIZE MOONS SPHERE: LIMB OR HORIZON: LAC 106 MARIOTTE A LAC 134 HOLTZMANN 655 48-875 168-650 35 \*\*\* \*\*\* 114922 8-12-67 LUNAR URB HI. 610MM BUW NONE 1192K 1954098 246 1949 \*\* -\*\*\*

CAMERA-LENS OR

152 65. 48.775 168.614 35 ... \*\* \*\*\* 114922 8-12-67 LUNAR URB LO.F. \*\* BDMM A&\* - NONE 1192K 14900000 246 19.9 \*\* -.\*\* SHINGE 83. PHASE 128. EMIS.ANG. # 35. CAM.RAD. 2931+2 KM+ SUN AZM#268+0 CAM+HAD+= 44+725 147+27# LAC 133 LEMATIME : 41/4 HUONS SPHERE : LAC 121 APULLO : LAC 120 OPPENHEIMER & LAC 132 ABBF+BF59

PHASE 128. ENIS.ANG. 35.

TOTAL PHOTOS IN THIS GROUP =

CAM . NAD . # 44.715 147.278

THESE TWO SYMBOLS NEXT TO HAIN OR PHOTO NUMBER MEAN:

- DEGRADED PHOTOS, SEALMOST UNUSABLE PHOTOS,

IILT ANGLES: AZIMUTH OF DIRECTION OF TILT(AZ) 6 VERTICAL TO CAMERA AXIS

L-).(-).(-).(-).(-). ON(U) \*\* NO INFO W \*\* APPROXIMATELY NEXT TO HAGH, B\*\*BRACKET HOUNTED\*\* G\*\* CAH. ON GROUND

CAMERA-LENS AS FOLLOWS:

- SW.A. \*\* SUPER WIDE ANGLE LENS! EKTREKTAR 2.8 LENS!

HSB\*\* HASSELBLAD:

- HAURE HAURER: ZP.ZB.ZS \*\* ZEISS LENS!PLANAR.BIOGEN.SONAR):

- FOCAL LENGTHEMM1 6 HAX.F\*\*OPENING

- LU\*\* AS EXPOS SPEED \*\* 1/1000 (OR \*\*\* THO ZEROS):

FOR LUNAR ORBITER K AFIER ALTITUDE EQUIALS KILOMETERS

CULUMN HEADINGS APPLY 10 FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG. AT PP 1F ALT NOT 0.0

FILM\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. MIS MAG FR. PHOTO PRIN. PT. URB H\_DA\_YR CAHERA-LENS OR GET GMT SENSOR PRIN. AZ ANG. ANG. FWD. UR LAT. TIMES-HR M SEC AND FILTER TUDE ( TELSTIMATED) TYPE MEN-MI PT. FR. LAP HIAM LUNG. K=KH. VERT 5. T NONE 3003K 37537500 100 5+3 16 £ 4 2 1945 42.975 86.51W 34 0.04 0.00 170147 5-25-67 LUNAR ORB LU.F=80MH 86W CAM-NAD-# 42-u15 99-09W SWING= 297. PHASE = 88. EMIS.ANG. = 15. CAH-RAD- 4742-2 KM-SUN 42H= 73+3 DEGRADED NEGATIVE: LAC 123 STEKLOV: 9>1/2 MOON SPHERE: LAC 134 BOLTZMANN & LAC 90 LOWELL 26 27+655 125+06# 7 \*\*\* \*\*\*\* 014205 8\*08-67 LUNAR DRB H1. 610MM 86W NOTE 5969K 8309836 258 944 5 **L5** 1

CAM-NAD-= 25-025 90-85% SWING= 89. PHASE= 125. EMIS-ANG.= 40. CAM-RAD-= 6808-2 KM- SUN AZM=274-4

LAC IU7 ELLEMMAN ; WI/4 MUONS SPHERE ; LAC 70 N-W-HERTZS ; LAC 71 N-E-MERTZSPRUNG-GRIGG & LAC 134 BOLTZMANN

L 5 | 29 59-12H 147-18W 9 \*\*\* \*\*\* 215131 8-08-67 LUNAR ORB HI. 610HH B6W - NONE 2548K 4177049 284 | 11-0 | 11 ---\*

Cam-mad-= 59-08H 113-56W SWING= 90+ Phase= 107+ Emis-ang-= 28+ Cam-mad-= 4287-2 km+ sun azh=254-7

EAC 19 CARNOT NUW I 6174 MUONS SPHERE I LAC 18B M+ORIENTS I LAC 184 BOLTZMANN 6 EAC 20 COULOMB

TOTAL PHOTOS IN THIS GROUP # 4



THESE TWO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEAN: • \*\*\* DEGRADED PHOTOS. \*\*\* ALMOST UNUSABLE PHOTOS,

ILLI ANGLES : AZIMUTH OF DIRECTION OF TILTIAZ) & VERTICAL TO CAMERA AXIS

(=1,(+),(), OR(U) \*\*\* NO INFO \*\*\* OF PROXIMATELY NEXT TO MAGN. B\*\*BRACKET MOUNTED! G\*\*\* CAM\*\*. ON GROUND

CANEMA-LENS 45 FOLLOWS: S\*\*\* A\*\*\* = SUPER WIDE ANGLE LENS! EKTM\*\*EKTAR 2\*\*8 LENS!

HSB\*\* HASSELBLAD! MAUN\*\* MAUNER! ZP,ZB\*\*ZS \*\*\* ZEISS LENS!PLANAN\*\*BIOGEN\*\*SONAR!! FOCAL LENGTH(MH) & MAX\*\*F\*\*OPENING 10\*\*\* AS EXPOS SPEED \*\*\* I/1000 (OR \*\*\* TWO ZERUS)

FUN LUNAR ORBITER K AFIER ALTITUDE EWUALS KILOMETERS

CULUMN NEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO! SCALE IS THE XXX OF 1/XXX ON ORIG\*\*NEG\*\*\* AT PP TF ALT NOT O\*\*\*O

MIS MAG FR.PHOTO PRIN.PT. ORB GLT GMT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. 210% KOFF UN LAT. TIMES-HR M SEC SENSUR AND FILTER THDE PRIN. AZ ANG. ANG. FWD. MAIR LUNG. ( \* mESTIMATED) TYPE H=N.HI PT. FR. LAP K-KH. VERT 8. 8 L 4 1 186 42-275 81-34W 33 \*\*\* \*\*\*\* 05D123 5=25=67 LUNAR ORB HI. 610MM 86W NONE 3006K 4927869 95 4.7 16 CAM-NAD .= 41.965 92.484 SHING= 293. PHASE = 87. EHIS.ANG. # 13. CAM+RAD+m 4745+2 KH+ SUN AZH# 74+2 LAC 109 PIAZZI.V.BUUVARD I LAC 135 PINGRE NOHAUSEN I LAC 124 PHOCYLIDES 6 LAC 123 STEKLOV L 4 1 173 63+895 85+97W 34 \*\*\* \*\*\* 162428 5-25-67 LUNAR ORB HI. 610MM 86W NONE 3519K 5768852 70 4+8 9 CAN-NAU .= 68.875 107.44m SWING= 232. PHASE 95. EHISWANG. 15. CAM-RAD. 5258-2 KM. LAC 135 PINGRE HANADSEN SUN AZHW 68.6 ; LAC 124 PHOCYLIDE; LAC 109 PIAZZI.V.; LAC 123 STEKLOV ; LAC 143 S.HA 6 LAC 136 BAIL € 4 2 173 63+895 85+76# 34 ++\* ++\* 162428 5=25=67 LUNAR ORB €0.+F=80MN 86# LAM-HAD-# 68-875 107-44W NONE 3519K 43987500 70 4.8 9 5 # ING= 232. PHASE 95. ENESMANG. 15. CAH+RAD+# 5258+2 KH+ SUN AZH# 68+6 LAC 135 PINGRE HOHAUSEN I W>1/2 HOUN SPHERE : LAC 139 HELMHOLZ. : LAC 90 LOWEIL I LAC 74 GRIMA & LAC 127 HOMM L 4 1 194 42.975 86.50W 34 \*\*\* \*\*\* 1/0147 5-25-67 LUNAR URB HI. 610MM 86W NONE 3003K 4922951 100 5.3 16 -.90 CAM-HAD-# 42-615 99-09# SwittG= 297. PHASE 88. EMIS-ANG. 15. LAC 123 STEKLUY CAH+RAD+# 4742+2 KH+ SUN AZME 73.3 I LAC 109 PIAZZI, V. BOUVARD I LAC 135 PINGRE NOHAUSEN & LAC 124 PHOCYLIDES L 5 1 24\* 26.54N 120.17W 5 \*\*\* \*\*\* 135051 8-07-67 LUNAR ORB HI. 610NM B6W NONE 5009K 8211475 281 CAN-NAD .= 24-UIN 89-35W SWING= 90. PHASE 119. EHIS.ANG. 37. CAM+RAD+= 6748+2 KH+ LAC 53 DHM FERSHAN : WI/4 MOONS SPHERE : LAC 135 PINGRE N. HAUSEN : LAC 20 COULONS SUN AZHES67.A & LAC BY S.E. HERTZS

TUTAL PHOTUS IN THIS GROUP ...

ALTI SCALE AT TILT SUN SIDE. FILM\_EXPOSURE GET GHT M-DA-YH CAHERA-LENS DR MIS HAG FR.PHOID PRIN.PT. ORB AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SION ROLL OR LAT. TIMES-HR M SEC SENSOR FR. LAP ( =LSTIMATED) TYPE MENOMI PT. HALH LUNG. VERT 8. 8 长三代刊: NONE 3575K 5860656 46 4-1 9 -. \*\* CAM-RAD. 5314-2 KH. SUN AZH= 69-3 5 m I NG = 211. PHASE 91. EMIS-ANG. 13. LAN-NAD .= /1.635 40.64% LAC 137 NEWTON, NO : LAC 136 BAILLEY.K : LAC 126 CLAVIUS.N : LAC 125 SCHILLER.SEGNER & LAC 111 WILHELM, ELGE

L 4 2 137 14.975 35.29W 25 \*\*\* \*\*\* 052651 5-21-67 LUNAR ORB LO.F=80MM 86W - NONE 27<sup>1</sup>8K 33975000 119 \*7 19 -\*\*\*

CAM.HAD.= 14.4US 36.34W SWING= 305. PHASE= 73. EHIS.ANG.= 3. CAM.RAD.= 4457.2 KH. SUN AZM. 84.1

EAC 75 LETRONNE.F : W>1/2 MOON SPHERE : LAC 136 BAILLEY.K : LAC 139 HELMHOLZ.HALE 6. LAC 141 RAYLE1GH

L 4 2 146% 2.79N 136±09E 26 ++\* ++\* 233025 5-21-67 LUNAR ORB LU.F=80HH B6# - NONE 6148K 76849999 25 +R ++ ++\*

CAM.NAD.= +16N 134+86E SWING= 45. PHASE= 109. EMIS-ANG.= 4+ CAM-RAD.= 7887+2 KH+ SUN AZH=271=7

DEGHAULU NEGATIVE: LAC 66 MENDELEEV: DI/4 HOONS SPHERE: LAC 136 BAILLEY.KIRCHER & LAC 19 CARNOT ROWLAN

L 4 | 154 71-705 33-51W 28 \*\*\* \*\*\* 161555 5-22-67 LUNAR ORB HI. 610HM R6W - NONE 3613K 5922951 105 5-2 11 --\*\*

LAM-NAD-= 72-085 69-24W SWING= 268+ PHASE= 94+ EMIS-ANG+= 16+ CAM-RAD+= 5352-2 KM+ SUN AZM= 52+2

LAC 137 NEWIUM-ND 1 LAC 136 BAILLEY-K 1 LAC 125 SCHILLER. 1 LAC 138 MANZINUS-SCHMBGER 6 LAC 139 HELMHOLZ-MAL

E 4 2 156 14-875 55-80W 28 000 000 173043 5-22-67 LUNAR ORB LO-FEBOMM B6W - NONE 2722K 34025000 135 04 17 0000 LAM-HAD-E 14-395 56-29W SWINGE 3210 PHASEE 740 EMIS-ANGOE IO CAM-RADOE 446102 KM0 SUN AZME 8407 LAC 74 GRIMALD108 WSIZ HOON SPHENE : LAC 136 BAILLEYOK : LAC 22 SEOGERARDOBNISENDARDING & LAC 40 TIMOCHARISOLA

[ 4 2 161 15:135 61:98# 29 \*\*\* \*\*\* 053134 5\*23\*67 LUNAR ORB LO:F=80HH 86# - NONE 2723K 34037590 129 \*8 17 -\*\*88 ' Cam:Nau= 14:365 62:94# SWING= 315: PHASE= 75: EMIS:ANG== 2: CAM:RAD== 4462:2 KM: SUN AZH==84:7 LAC /4 ORIMALDI:U: W>1/2 MOUN SPHERE: LAC 136 BAILLEY:K : LAC 22 SE:GERARD:BUNSEN:HARDING & LAC 58 COPERNICUS:RE

510		, OR	LAT		į\$	GLT FIMES-HK [imestim/	M SEC		56	HELENS OR INSOR IYPE		AND FILTER	TUDE PRIN- HMN-HI PT- KEKH.	ĄZ .	ANG. ANG.	FWD+
	E 0:14 -	Date 24	- 105	94-274		SWING	246.	PHASE =	94. E	HISOANG.= 11	::●	- NONE CAM-RAD UCYLIDES		204	3+6 7 AZM# 68+2 PIAZZI V-80	
		NAD - # 71	2.0.5	04 - 12	di.	54446=	244.	PHASE	94. E	MID-ANG-# 11		- NONE CAMERADO- 1/3 Gg		3011	3.6 7 A2N= 68.2 H.HUHOR., GA	
_				5 45 T . 4545 I	107	5 Ib 1 A 6 -	212.	27 4 CE #	95.	RB HI. 610HH [His.ang.= 15 EDP PIAZZI.V	3 a	CAH+BAD+#	3519K 5768852 5258+2 KH+ / 1 LAC 143 S	SUN	<u> </u>	

TOTAL PHOTOS IN THIS GROUP # 12

MIS MAG FR.PHUTU PRIN.PT. URB GET GMT H-DA-YR SION ROLL OR LAT. # TIMES-HR M SEC CAMEMA-LENS OR FILH\_EXPOSURE ALTE SCALE AT TILT SUN SIDE. MAIN SENSOR LUNG. ( =ESTIMATEU) AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. TYPE MEN.HI PT. FR. LAP K=KH. YERT

- L 4 | 94 72-115 20-19E 18 \*\*\* \*\*\* 160008 5-17-67 LUNAR ORB HI 610MM B6W NONE 3517K 5765574 103 3-2 9 --\*\*

  LAC 138 MANAZHUS, I LAC 137 NEWTON-HO I LAC 127 HOMMEL.VL : LAC 126 CLAVIUS.MAGINUS 5256-2 KM- SUN AZM= 59-4

  L 4 | 1-6 72-165 9-96E 20 \*\*\* \*\*\* LAC 100 F-10-17 LUNAR ORB HI 610MM B6W NONE 3517K 5765574 103 3-2 9 --\*\*

  LAC 138 MANAZHUS, I LAC 137 NEWTON-HO I LAC 127 HOMMEL.VL : LAC 126 CLAVIUS.MAGINUS 546C 194 SCOTT.S-POLE
- L 4 1 1.6 72-165 9-96E 20 000 0000 16D4D6 5-18-67 LUNAR DRB HI 61DHH B6W NONE 3535K 5795DA2 104 3.4 9 -.00
  LAC 137 NEHTUN.HD : LAC 138 HANZINUS. : LAC 126 CLAVIUS.M : LAC 127 HOMMEL.VLACQ 6 LAC 144 SCOTT.5.POLE
- L 4 2 106 72-165 9-45E 20 --- --- 160406 5-18-67 LUNAR ORB LO-F-80MM 86W --- NONE 3534K 44175000 104 3-4 9 --LAC 137 NEDTUN:MU : W>1/2 HOON SPHERE : LAC 129 M:AUSTRAL : LAC 131 PRANDTL PLANK --- SUN AZM# 58-0
  L 4 2 113 14-635 9-51W 21 --- --- RESUMD E--- TIMESTON FOR CAMERAD --- FRANDTL PLANK --- G LAC 144 5COTT.S-POLE
- CAN-NAD-# 14-455 9-81W 21 -\*\* -\*\* 051900 5-19-67 LUNAR URB LO-F=BONN H6W NONE 2718K 33975800 123 -2 20 --\*\*

  LAC // PIOLNALUS- 1 J>1/2 MOON SPHERE: LAC 137 NEWTON-HO! LAC 25 CASSINI-ALPS MTS G LAC 42 H-SERENITY-DA
- L4 2 418 72-475 6-978 22 000 0000 160805 5-19-67 LUNAR ORB LO.F=800H 868 HONE 3555K 44437500 107 300 8 -000 LAC 137 NEWTON, NO : W>1/2 HOUR SPHERE : LAC 131 PRANDTL : LAC 116 M.AUSTRALE.JENNER LAC 94 PITATUS.M.AND
- CAM-NAD-E 71-635 40-64W SWINGE 211- PHASE 91- EMIS-ANG-E 13- CAM-RAD-E 53:4-2 KM- SUN AZM- 69-3

  LAC 137 HERIUN-HU; LAC 136 BAILLEY-K; LAC 126 CLAVIUS-H; LAC 125 SCHILLER-SEGNER 69-3

  L 4 2 130 65-..75 25-45-8 30 0.55-45-8 40

ALTE SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS DR M-DA-YR GET GMT HIS MAG FRAPHOTO PRINAPTO ORB PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SEUSOR TIMES-HR M SEC UR LAT. SION RULL FR. MEN-HI PT. TYPE ( | LST | MATED | HAIN LUNG. VERT 8. 5 K=KH.

- 4 1 154 71-705 33-51W 28 -- -- 161555 5-22-67 LUNAR ORB H1: 610MM BCW NONE 3613K 5922951 105 5-2 11 ---CAM-NAD-= 72-085 69-24W SWING= 268- PHASE= 94- EMIS-ANG-= 16- CAM-RAD-= 5352-2 KM+ SUN-AZM= 52-2
  LAC 137 MENTON:MO 1 LAC 136 BAILLEY:K I LAC 125 SCHILLER: 1 LAC 138 MANZENUS;SCHMBGER 6 LAC 139 HELMHOLZ;MAL
- L 4 2 160 42+795 54+52W 29 \*\*\* \*\*\*\* 645917 5=23=67 LUNAR ORB LO-F#80MM B&W \*\* NONE 3012K 37650000 99 4+8 17 \*\*\*\* Cam-Nad-# 42+J35 65-80M Swing= 296+ Phase= 85+ Emis-Ang-# 13+ Cam-Rad-# 4751+2 km+ Sun Azm= 72+3 LAC 11- SCHICKARD-LACROIX : \$174 HUDNS SPHERE : LAC 144 SCOTT-S-POLF NEARSTOE >6 LAC 55 VASCODEGAMMA
- L 4 1 1-6 71-315 60-23W 3G -- -- -- 161844 5-23-67 LUNAR ORB H1, 610HN B6W NONE 3593K 5890164 101 3-4 7 -- -- -- CAM-NAD-- 71-195 82-44W SWING= 264- PHASE= 93- EMIS-ANG-- 10- CAM-RAD-= 5332-2 KM- SWING= 264- PHASE= 93- EMIS-ANG-- 10- CAM-RAD-= 5332-2 KM- SWING= 264- PHASE= 93- EMIS-ANG-- 10- CAM-RAD-- 5332-2 KM- SWING= 264- PHASE= 93- EMIS-ANG-- 10- CAM-RAD-- 5332-2 KM- SWING= 6- LAC 144 SCOTT-- 5-POLE
  LAC 136 BAILLEY-K 1 LAC 124 PHOCYLIDE 1 LAC 110 SCHICKARD 1 LAC 137 NEWTON-HORETUS 6 LAC 144 SCOTT-- 5-POLE

16TAL PHOTOS IN THIS GROUP # 12

PAGE 380

ALTE SCALE AT TILT SUN SIDE. CAMERA-LENS ON FILM EXPOSURE MIS MAG ER.PHUID PRIN.PI. ORB GET GMT H\_DA-YR AND FILTER TUDE PRIN. AZ ANG. ANG. FRD. TIMES-HR M SEC SENSOR STON HOLE OR LATE # LAP TYPE HENOM! PT. FR. 1 SESTIMATED. MALN LUNG. K=KM. VERT 8. 2

- L 4 44 72-125 69-06E 10 \*\*\* \*\*\* 154924 5\*13\*67 LUNAR ORB H1, 610MM H6K NONE 3498K 5734476 107 3\*0 9 -\*\*\*

  CAM-HAD-# 71-275 50\*86E SMING# 275- PHASE# 89- EMIS-ANG-# 7- CAM-RAD-# 5237\*2 KM- SUN AZM# 59+6

  LAC 139 HELMHULZ, : LAC 129 M-AUSTRAL : LAC 128 BIELA,WAT : LAC 144 SCOTT,S-POLE NEARSHOF > 805 & LAC 145 5.POLE FARSI

- L 4 2 709 72-645 49-06E 14 000 0000 155335 5=15-67 LUNAR DRB LU-F=803M B&W -- NONE 3496K 43700DDD 109 3-7 10 --000 CAM-MAD-- 71-565 24-60E SWINGW 276. PHASE= 90. EMIS-ANG-= 11. CAM-RAD-= 5235-2 KM. SUN AZM= 55-1 DEGHAUED HEGATIVE & LAC 138 MANZINUS-SCHHBGER

- L 4 | 94 72-115 20-17E 18 000 0000 160008 5=17-67 LUNAR ORB HI 610HH RAW = NONE 3517K 5765574 103 302 7 =000 CAM-NAD-= 71-705 0-67W SWING= 270- PHASE= 90- EMIS-ANG-= 10- CAM-RAD-= 525602 KM- SUN AZH= 59-4 LAC 138 MANZINUS-: LAC 137 NEWTON-MO: LAC 127 HONHEL-VE: LAC 126 CLAVIUS-MAGINUS 6 LAC 144 SCOTT-5-POLE
- L 4 2 94 72-115 20-19E 18 000 0000 5-17-67 LUNAR DRB LO-FEBORN BOW NONE 3517K 43962500 103 302 9 --000 CAM-HAD-- 71-765 U-67N SHINGE 27U- PHASE= 90. EHIS-ANG-- FU- CAM-RAD-- 5256-2 KM- SUN AZM- 5904 LAC 138 HANZINUS, 1 U-31/2 HOUN SPHERE 1 LAC 126 CLAVIUS-H 1 LAC 144 SCOTT-5-POLE NEARSIDE > 805 6 LAC 145 5-POLE FARSI

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE MIS HAG FREPHUTO PRINEPTS ORB GET GMT M-DA-YR CAMERA-LENS OR SENSOR PRIN. AZ ANG. ANG. FWD. AND FILTER TUDE SION ROLL OR LAT. # TIMES-HR M SEC FR. TYPE MENANI PT. LAP HATH LUNG. ( =ESTIMATED) K#KM. VERT L 4 1 106 72-165 9-46E 20 \*\*\* \*\*\*\* \$60406 5-18-67 LUNAR ORB H1. 610MM B6W - NONE 3535K 5795082 104 3+4 9 CAM-NAD- 71-715 13-37W SWING- 272- PHASE- 90- ENIS-ANG- 10-CAM-RAD- 5274-2 KH- SUN AZH- 58-0 & LAC 144 SCOTT.S.POLE LAC 137 REPTURAND : LAC 138 HANZINUS. : LAC 126 CLAVIUS.M : LAC 127 HOMMEL. VLACQ - NONE 3555K 5827869 107 3.0 8 -. \*\* 1 4 1 118 72-495 6.99# 22 \*\*\* \*\*\* 160805 5-19-67 LUNAR ORB H1. 610HH 86W PHASE= 90. ENIS.ANG. = 9. CAH+RAD+# 5294+2 KH+ SUN AZH= 62+0 CAM-HAD .= 71.675 26.89W SHING= 275. LAC 137 NEWTUN HU : LAC 138 MANZINUS : LAC 126 CLAVIUS M : LAC 144 SCOTT S. POLE NEARSIDE > 805 6 LAC 145 S. POLE FARSI L 4 1 154 71.7us 33.51W 28 ... ... 161555 5-22-67 LUNAR ORB HI. 610MH B&W - NONE 3613K 5922951 105 5+2 11 -+\*\* CAH+RAD+# 5352+2 KH+ SUN AZH# 52+2 CAN-NAD-= 72-085 69-240 SWING= 268- PHASE= 94. EMIS-ANG-= 16-& LAC 139 HELMHOLZ . HAL LAC 137 NEWTOH, NO : LAC 136 BAILLEY.K : LAC 125 SCHILLER. : LAC 138 MANZINUS, SCHMBGER NONE 5796k 9501639 264 5+3 2 -+\*\* L 4 1 178 33-875 82-21E 32 \*\*\* \*\*\* 132933 5-24-67 LUNAR UNB H1. 610MM 86W SWENG= 275. PHASE= 112. EMIS.ANG.= 23. CAM-RAD -- 7535-2 KM- SUN AZH=271-9 LAM.NAD.= 33.985 104.14E LAC LIS MORUSTRALE JENNER 1 91/4 HUONS SPHERE : LAC 63 NFPER-SCHUBERT N-SHYTHI & LAC 99 HUHBOLT GIBB

TOTAL PHOTOS IN THIS GROUP # 13

INCST THE SYMBULS NEXT TO HAIR OR PHOTO NUMBER HEAN! • # DEGRADED PHOTOS. \$= ALMOST UNUSABLE PHOTOS.

ILLI ARGLES: AZIMUTH OF DIRECTION OF TILITAZE & VERTICAL TO CAMERA AXIS

L+).(•),(•),(•), (•), origin no through approximately next to mage behacket hounted; G. Cah. On Ground

CAMERA-LENS AS FOLLOWS:

SW.A. # SUPER WIDE ARGLE LENS! EKTREKTAR 2.8 LENS!

HOWARD HAURE MAURER: ZP.18.25 = ZEISS LENS!PLANAR.BIOGEN.SONAR!: FOCAL LENGTHIMM! & MAX.F-OPENING

LUB AS EXPOS SPEED # 1/1000 COR \*\* TWO ZEROS;

FOR LUNAR ORBITER K AFTER ALTITUDE EQUALS KILOMETERS

COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE 15 THE XXX OF L/XXX ON ORIGINEG. AT PP IF ALT NOT 2.0

HIS HAG FREPHUTO PRIN.PT. ORB GH1 H\_DA-YR GET: CAMENALLENS OR SION ROLL OR LAT. FILH\_E SPOSURE ALTE SCALE AT TILE SUN SIDE. TIMES-HR H SEC . SENSOR AND FILTER TUDE MATH PRIM. AZ ANG. ANG. PRD. LONG ( =ESTINATED) TYPE H=N.H1 PT. FR. LAP K=KM. VERT 8. 2 5 71.505 91.30E 6 000 0000 154618 5-11-67 LUNAR ORB HI. 610HH BEW NONE 3513K 5759016 100 2.4 9 -... CAM+NAD+# 71-235 76-27E SWING 267. PHASE # 88. EMISHANG. 7. LAC 139 HELHHULZ HALE CAM-RAD-# 5252.2 KH. SUN AZM# 61.8 I LAC 130 E-MAR AUSTRALE PRIESTLI LAC 129 M.AUSTRALE LYOT

L 4 | 8 70=495 91-35E 6 ••• ••• 154648 5-11-67 LUNAR ORB HI: 610HH BGW - NONE 3505K 5745902 92 2:4 9 --90 Cam-wad-= 70-915 76=54E Swing= 260: Phase= 88: Emis-Ang-= 7: Cam-rad-= 5244-2 km; sun Azh= 61:9 Lac 139 Helmhulz-male ; ; ; Lac 129 M=AUSTRALE-LYOT & Lac 144 Scott-S-POL

L 4 2 32% 71.445 77.79E 8 \*\*\* \*\*\* 154747 5=12-67 LUNAR ORB LO<sub>4</sub>F=80HH 86W - NONE 3505K 43812500 98 2=3 8 -,\*\* Lah-Had \*\* 71.245 63.03E Swing\*\* 266\* Phase\*\* 88\* Ehis-Ang\*\*\* 7\* Cah-Rad \*\*\* 5244.2 KH\*\* Sun Azh\*\* 63.1 Degnaded negative 6 lac 139 helholz, hale

L 4 1 99 72-125 69-06E 10 000 0000 159924 5-13-67 LUNAR ORB HIO 610HH B6W - NONE 3998K 5734926 197 3:0 9 0000 Landhadow 71-275 50-06E Swingw 275. Phasew 89. Emisoangow 90 Cambradow 5237-2 km sun azm 59-6 Lac 139 Helmhulz, : Lac 129 Mogustral : Lac 128 Bielabrat : Lac 149 Scottes-Pole NearStor > 805 6 Lac 145 Sopole Farsi

4 44° 72°115 69°06E 10 °°° \*\*\* ES4924 5°13°67 LUNAR ORB LO-F#80HH 86W ° NONE 3498K 43725000 186 3°0 9 °°° CAM-NADO= 71°275 50°86E SEINGM 275° PHASE 89° EMISANGO= 9° CAM-RADO= 5237°2 KM° SUN AZH# 59°6 LAC 139 HELMHULZ. I WONZ HOON SPHERE I LUMAR S° HEMISPHE I LAC 141 RAYLEIGH 6 LAC 144 RHEITA, JANSS

HIS BAG FROPHUTU PHINOPTO URB G SION HULL UN LATO IN TIM IN IN HAIM LUNGO (IIII II	LS-HR M SEC LSTIMATED!	SENSOR Type	AND FILTER	医血浆剂 *	ANG. ANG. FWD. FR. LAP VERT 8. R
L 4 1 70 72-655 49-06E 14 *** CAM-MAD** 71-565 24-60E S <sub>m</sub> EAC 138 MANZIMUS; 1 LAC 139 HELMHO	2. 1 LAC 127 HONNEL, VL	LAC 128 BIELA WATT	CAM - RAD - =	5236+2 KH+ SUN 6 LAC 14	∷AzH= SS+į 4 Scott_S_Pole
L 4 1 82 72-375 32-47E 16 5 CAM-NAU-= 71-625 12-84E 5 LAC 138 MANAINUS-SCHMBGER	I LAC 127 HOMNEL, VLACO	: LAC 144 Sc	OTT.5.POLE NE	3503K 5742623 [06 524262 KH+ SUN ARSIDE >6 LAC P45	3-1 P AZHW 59-4 S-POLE FARS
L 4 2 137 14-975 35-298 25 *** CAM-HAD-= 14-465 36-348 SWI LAC 75 LETHONNE F ; W>1/2 MOON SPHE	000 052451 5-21-67 LUNAR NG= 305. PHASE= 73. NE 1 LAC 136 BAILLEY.K :	R ORB LO.F=80HH 86W - EHIS•ANG.= Z• : LAC 139 HELHHOLZ:HA	** HANE CAH•RAD•* LE	2718K 33975000 119 4457+2 KH+ SUN 6 LAC 141	•7 39•• Azh= 84•; 1 Rayleigh
L 4 1 154 71-705 33-51W 28 CAM-MAD-# 72-085 69-24W SWI LAC 137 MEMTUN-HU I LAC 136 BAILLET	•* 161555 5-22-67 LUNAR NG= 268• PHASE= 94• •K   LAC 125 SCHELLER•	ORB H1. 6:OMM B6W EH15.ANG.= 16. LAC [38 MAN&INUS.SC	* NONE CAH-RAD-=	3643K 5922951 105 5352+2 KH+ SUN 6 LAC 135	5+2    -,++ AZM# 52+2 9 HELMHOLZ:HAL
E 4 1 178 33-875 82-216 32 00-0 CAM-HAD-# 33-985 104-146 SWI EAC 116 M-AUSTRALE-JENNER	PHASE 1129 NG# 275. PHASE 112. 1 01/4 HOONS SPHERE	ORB H1. 610HM B6W EM15.ANG.= 23. 1 LAC 63 NEP	T NONE CAM+RAD+= ER,SCHUBERT+N	5796K 9501639 264 7535•2 KH• SUN •SMYTHI & LAC 99 H	5+3 2** AZM=271+9 HUNGQLT-GIRA
L 4 2 193 63-885 85-98W 34 6.4 6 CAM-NAD-# 68-875 167-44W SWI	*** 162428 5*25-A7 ( links	UPB IN FARMING DAY	_		

SWINGE 232. PHASE 95. EHIS.ANG. 15. CAM.RAD. 5258.2 KH. SUN AZH# 68.6

1 W>1/2 HOUN SPHERE : LAC 139 HELHHOLZ, ; LAC 90 LONEL : LAC 74 GRIHA & LAC 127 HOHH

TOTAL PHOTOS IN THES GROUP . 15

LAC 135 PINGHE NOHAUSEN

& LAC BO LANGRENUS HAF

CAH-NAD-= 42-415 66-45E

## REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

SHING 295.

LAC 115 FURNEHOUS : WHITE HOON SPHERE ! LAG 140 SCHRUDING : LAC 129 H.AUSTRALE LYOT

S. ALMOST UNUSABLE PHOTOS. THESE THO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER MEANS . . DEGRADED PHOTOS. THE ANGLES : AZIMUTH OF DIRECTION OF TILTIALL & VERTICAL TO CAMERA AXIS W = APPROXIMATELY NEXT TO MAGE, BEBRACKET HOUNTED; G. CAM, ON GROUND taget to Ontur a NO INFO SH.A. . SUPER WIDE ANGLE LENST EKTREEKTAR 2.8 LENST CAMERA-LENS AS FOLLOWS: MAURE MAURERS LP. ZB. 45 - ZEISS LENSIPLANAR BIOGEN SONARIE FOCAL LENGTHIMM & MAX.F-OPENING HSB= HASSELBLADI 10. AS EXPOS SPEED . I/IDOU LOR .= TWO ZEROS1 FOR LUNAR ORBETTE K AFTER ALTITUDE EQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIG. VEG. AT PP IF ALT NOT 0.0

HIS HAG FREEHUTO PRENEPT. ORB SION ROLL OR LAT. # # # HAEN LONG.	GET GHT THES-HK H SEC (THEST]HATED)	H_DA_YR CAME	RA-LENS OR FILH- Sensor Type	EXPOSURE AND FILTER	ALTI SCALE AT TUDE PRIN. H=N.HI PT. KMKH.	TILT SUN SIDE. AZ ANG. ANG. FWO. FR. LAP VERT K. R
CAM-NAD-R 71-235 76-27E LAC 139 HELMHOLZ-HALE	SHINGS 267.	PHASES 68. BESHAR AUSTRALE	PRIESTLI LAC 129	ANDSTRALE IL YO	T & LAC	144 SCOTT S.POL
L 4: 1 6 71-175 91-33E 6 CAM-NAD = 71-135 76-36E LAC 139 HELHHULZ-HALE	54628 5410G= 265	5-11-67 LUNAR Phase= 88.	ORB HI. 610HN B&W EHIS-ANG. 7. 1 LAC 129	+ NONE CAM-RAD-= H-AUSTRALE-LYO	3510K 5754098 5249•2 KH• T & LAC	97 2.4 990 SUN AZN# 61.9: 144 SCOTT+S+POL
L 4   B 70:495 91:35E 6 CAM:HAD:= F0:915 76:59E LAC 139 HELMHULZ,HALE	2MING# Son.	LHWOF# 88.	; LAC 129	HAUSTRALE .LYO	T & LAC	144 SCOTT+S+POL
L4 2 9 41.795 96.20E 6  CAM.NAD. = 42.025 86.28E  EAC 116 H.AUSTRAL 1 8>1/2 HOUN				ER	6 L/	AC 63 NEPER+SCHUBER
L4 2 10 41-415 76-20E 6 CAN-HADS 41-885 86-30E EAC 116 H-AUSTHAL 1 9-172 MODE	Selves 287	S#11-67 LUNAR PHASE# 76.	ORB LO.F.BONH B&W	= NONE Cam∙rad•= Er	2987K 373375ml 4726+2 KH+ 6 L/	3 89 4.3 2590 SUN AZM# 65.2 AC 81 ANSGARIUS,#.H
LAC 116 M-AUSTRAL 1 W-1/2 HOUR				CAM+RAD+= ER	4725+2 KH+ 6 Li	3 A7 4.3 2590 SUN AZH= 65.4 AC 63 NEPER:SCHUBER
CAMONADOM 410615 860345 LAC 116 NORUSTRAL 1 WALVE HOUR	162708	5-11-67 LUNAR	ORB LOIF BOHM BOW	- NONE	2989K 3730000:	3 86 4+3 25 ++90 SUN AZH+ 65+6
. 4 2 380 42.635 77.77€ 9	··· ··· 042846	5-13-67 LUNAR	ARB LO.F.BOHM BOW	- NonE	2982K 3727500	98 4+8-24 -+**   SUN AZH# 64+8

NONE 2976K 37200000 99 4.5 23 52 42.905 63.80E 11 4.4 4.0 043024 5-14-67 LUNAR LU, ED.F. 608H B&# 4715+2 KH+ SUN AZM# 66.0 CAH+RAD.+= PHASE 78. EHIS.ANG. 12. SWING= 297. LAH-HAD-= 42-U65 53-33E & LAC 79 COLOHBO NE.H. LAC 115 FUHNERIUS : WYLYZ HOON SPHERE : LUNKE SO HEHISPHE : LAC 140 SCHHODINGER

PHASE TB. EHIS.ANG = 13.

		MAG Holl H	•	PHIN•PT• Lat• Lung	11	GET TIMES-HR (*=ESTIM)	M SEC	M-DA-YR CAR	RERA-LENS OR Sensur Typl	FILM-E	XPOSURE .AND FILTER	ALTI SCALE AT Tude Prin. Men.Hi Pt. Kekh.			
1		ÇAII•	NAU+# 42.	115 46.79	E,	SWING=	287.	ΫHΑ5E= 28.	ORB LO.F.BOHM EHIS.ANG.= 1 LAC 140 SCH	10.	CAM RAD		รยพ	3+6 22 AZM= 68+5 M.UNDARUH,	-
	4	2	82 72.3	75 32.46E	16	*** ****	155638	5-16-67 LUNAR	URB LO.F.BOH	M 86%	- NONE	3503K 43787500	106	3.1 9	-,••

TO CONTRACT TO STATE THE ASSESSMENT OF THE PARTY TO THE PROPERTY STATE OF THE STATE OF THE PARTY THE PARTY

- L 4 2 88 42-695 24-94E 47 000 0043838 5-17-67 LUNAR ORB LO-FERDHH B6W NONE 2973K 37162500 96 4-6 22 --00 CAM-NAD-- 42-265 14-13E SWINGE 295- PHASE- BO- ENIS-ANG-- 13- CAM-RAD-- 4712-2 KM- SUN A7M- 67-8 LAC 113 MAUNULYLUS-RAB-LEVI : W>1/2 HOON SPHERE; LAC 140 SCHRODING; LAC 129 M-AUSTRA; LAC 79 COLOM & LAC 60 J-CAE
- L 4 2 95 42+535 18+70E 18 +\*\* \*\*\* \*\*\* 164034 5-17-67 LUNAR ORB LU-F=80HH 86W HONE 2975K 37187500 95 4+7 22 --\*\*

  CAM-HAD-\*\* 92+275 7+64E SHING= 294+ PHASE= 80+ ENIS-ANG+\*\* 13+ CAM-RAD-\*\* 4714+2 KM+ SUN AZM= 67+9

  LAC 113 HAUKOLTCUS-RAB-LEVI I W>1/2 HOUN SPHERE : LAC 140 SCHRODING : LAC 129 M+AUSTRA : LAC 78 THEOP & LAC 112 TYCH

- L 5 | 21° 85°195 175°38" 3 °°° °°° 171706 8°06°67 LUNAR ORB HI 610MM 86" " NONE 3342K 5478688 187 16°8 3 "°°° CAMENAD ° 50°725 69°075 SWINGE 25° PHASEE IIP° EHISEANG ° 58° CAMERAD ° 50°12K KH° SUN AZHE343°5 LAC 145 5°FULE FARSIDE AUNDSE : \$174 HOUNS SPHERE : LAC 141 RAYLEIGH : LAC 140 SCHRODINGER 6 LAC 142 ZEEHAN

TUTAL PHOTUS IN THIS GROUP . 18

ALTI SCALE AT TILT SUN SIDE. FILH-EXPOSURE MIS MAG FREPHOTO PRINEPT, ORB CAMERA-LENS OR GET GMT H-DA-YR TIMES-HH M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG ANG FWD. STON ROLL UR LAT. TYPE MENSHI PT. FR. LAP MAIN LUNG. ( =ESTIMATED) K=KH. VERT S. S.

- L 4 2 44. 72.115 69.06E 10 4.4 4.4 154924 5-13-67 LUNAR ORB LO.F.BOHM BOW NONE 3498K 43725000 106 3.0 9 --... Cam.Nad.= 71.275 50.06E Swing= 275. Phase= 89. Emis.Ang.= 9. Cam.Rad.= 523742 km. Sun Azm. 5946 Lac 139 Helmhulz, 1 w>1/2 moon sphere; lunar s. Hemisphe; lac 141 rayleigh 6 lac 114 rheita.Janss
- L 4 2 585 71-575 54-40E 12 \*\*\* \*\*\* 155118 5-14-67 LUNAR ORB LO-F=80HH 86W NONE 3494K 43675000 100 2\*7 9 -\*\*\*

  CAN-HAD-- 71-365 37-31E 541NG= 269. PHASE= 89. ENIS-ANG-- 8. CAM-RAD-- 5233-2 KM. SUN AZM-- 62-0

  DEGNADED NEGATIVE : LAC 138 MAN/1NUS- : \$\text{W}>1/2 MOON SPHERE : LAC 141 RAYLEIGH

  6 LAC 144 SCOTT/S-POLE

- LS \$ 22 26.965 112.55W 4 \*\*\* \*\*\* 0035UO 8\*07\*67 LUNAR ORB H\$. 610MM B6# \* NONE 5106K 8370492 259 9\*7 6 \*\*\*\*

  CAM:NAD:# 25.655 77.04W Swing# 9\$. PHAS:# 126. EMIS:ANG:# 4\$. CAM:RAD:# 6845\*2 KH: SUN AZN#274\*5

  LAC 107 ELLEHMAN 6 W174 MOONS SPHERE

TUTAL PROFOS IN THIS GROUP = 5

HIS HAG FR. PHOTO PRIN. PT. ORB GET GMI M-DA-YR CAMERA-LENS OR FILH-EXPOSURE ALTI SCALE AT TILT SUN SIDE. UR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FBD. MAIN LONG. ( \* m L ST I MATED) TYPE M=NeMI PT. FR. LAP K=KM. VFRI 8 . 2

L 4 2 B 70.495 91.37E 6 ... 154648 5-11-67 LUNAR ORD LO.F=80MM R6W - NONE 3505K 43812500 92 2.4 9 -.7 LAH.NAD.= 70.915 76.55E SWING= 259. PHASE= 88. EMIS.ANG.= 7. CAM.RAD.= 5244.2 KM. SUN AZM= 61.9 LAC 139 HELMHULZ, 1 W>1/2 MOON SPHEKE 1 LUNAR S. HEMISPHE 1 LAC 142 ZEEMAN & LAC 129 M.AUSTRALE,L

L 5 1 21° 45°19S 175°38M 3 \*\*\* \*\*\* \*\*\* 171706 8°06°67 EUNAR ORB H1° 610MH 86W - NONE 3342K 5478688 187 16°8 3 \*\*\*\*

CAM\*NAD\*\*\* 50°72S 69°07W SWING\*\* 25° PHASE\*\* 119° EHIS\*ANG\*\*\* 58° CAM\*RAD\*\*\* 5081°2 KH° SUN AZH\*343°5

LAC 145 5°PULE FARSIDEIAMUNDSE : @174 MOONS SPHERE ; ESC 141 RAYLEIGH ; LAC 140 SCHRODINGER 6 LAC 142 ZEEMAN

L 5 1 22 26.96% 112.55% 4 0.0 0.03500 8-07-67 LUNAR ORB HI. 610MM 86% - NONE 5106K 8370492 259 9.7 6 -.00
CAM-NAD-# 25.655 77.04% SWINGW 91. PHASE 126. EMIS-ANG.# 41. CAM-RAD-W 6845-2 KM. SUN AZM=274.5
LAC 167 ELLERMAN 6 W1/4 MOONS SPHERE

TOTAL PHOTOS IN THIS GROUP = 3

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THESE THO SYMBOLS NEAT TO HAIN OR PHOTO NUMBER MEAN! . \* DEGRADED PHOTOS. SE ALMOSY UNUSABLE PHOTOS. FILT ANGLES : AZIMUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS (-),(-),( ), OK(O) = NO INFO W = APPROXIMATELY NEXT TO MAGN, R=BRACKET MOUNTED: G= CAM. ON GROUND CAMERA-LENS AS FOLLOWS: SW.A. . SUPER WIDE ANGLE LENS: EKTHREKTAR 2.8 LENS: HSB# HASSEIBLAD: HAUR# HAUREM: ZP.ZB.ZS # ZEISS LENS(PLANAR.BIOGEN.SONAR): FOCAL LENGTH(HM) & MAX.F-OPENING IU. AS EXPOS SPEED # 1/1060 (OR .. TWO ZEROS) FUN LUNAR ORBITER & AFTER ALTITUDE FQUALS KILOMETERS COLUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1/XXX ON ORIGINAG. AT PP IF ALT NOT 0.0

CAMERALLENS OR FILM\_EXPOSURE ALTI SCALE AT TILT SUN SIDE. MIS MAG FR. PHOTO PRIN. PT. ORB GET GHT M-DA-YR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. SENSOR SION HOLL OR LAT. TIMES-HR M SEC MAIN LUNG. (Imestinated) TYPE M=N.MI PT. FH. LAP VERT K=KH. 8. 7

THE PROPERTY OF THE PROPERTY O

- 1 4 2 173 14.765 75.41W 31 \*\*\* \*\*\*\* D53243 5=24-67 1UNAR ORB LO.F=80MH B6W - NONE 2724K 34050000 116 -6 15 -. 7 Swings 301. PHASE 76. EMIS.ANG. 1. CAM.RAD. 4463.2 KH. SUN AZM 85.1 CAM-NAD-# 14-375 76-23# LAC 143 S. HAUSEN LEGENTIL G LAC 36 RONTGEN LORE LAC 73 RICCIULI.NE. URIENTAL : @>1/2 MOON SPHERE
- 4 4 1 179 69-525 74-07W 32 \*\*\* \*\*\*\* 161924 5\*24-67 LUNAR ORB HI. 610MM 86W - NONE 3592K 5888525 86 3.6 7 -. \*\* CAM-RAD-= 5331-2 KM- SUN AZH= 68-2 CAM-NAD . 71-385 96-22W 5#1NG= 246. PHASE 94. EMIS.ANG. 11. 1 LAC 143 S. HAUSEN LEGENTIL : LAC 124 PHOCYLIDES LAC 109 PIAZZIAVARO LAC 136 BAILLEY.KINCHER
- NONE 2724K 34050000 26 .9 15 -. 1 4 4 2 481 13.695 82.19W 32 \*\*\* \*\*\*\* 173307 5-24-67 LUNAR ORB LO.F#80MM 86W CAM-RAD. = 4463.2 KM. SUN AZH #85.7 LAM-NAU .= 14-405 82-86# Swing= 212. PHASE= 76. EMIS.ANG.= 2. 1 B>1/2 HOUN SPHERE 2 LAC 143 S.HAUSEN LEGENTIL . LAC 21 N.GERARD. HOD LAC 73 RICCIOLI.NE.ORIENTAL
- NONE 2723K 34037500 145 15 14 -. . . [ 4 2 187 14.965 69.86W 33 000 04.8 053334 5-25-67 LUNAR ORB LO.F=80MM B6W LAR-NAD-= 14.365 89.49W SNING= 330. PHASE 77. EMIS.ANG. 1. CAMORADOS 446202 KMS : p>1/2 MUON SPHERF I LAC 143 S.HAUSEN LEGENTIL . LAC 36 RONTGEN LORE LAC 73 RICCIULI NE URIENTAL
- L 4 1 173 63-895 85-97W 34 \*\*\* \$-\*\* 162428 5-25-67 LUNAR ORB H1. 610MM 86W - NONE 3519K 5768852 70 4.8 9 -.\*\* SHINGE 232. PHASE: 95. EMIS-ANG. 15. CAM-RAD. 5258-2 KM. SUN AZHE 68-6 LAN-HAD .= 68.875 107.44W LAC 135 PINGRE H.HAUSEN I LAC 124 PHOCYLIDE : LAC 109 PIAZZIAVA I LAC 123 STEKLOV I LAC 143 SAHA 6 LAC 136 BAIL

TOTAL PHOTOS IN THIS GROUP #

- 3

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ALTI SCALE AT TILT SUN SIDE. HIS HAG FH.PHUTO PRIN.PT. ORB GET GHT H-DA-YR CAMERA-LENS OR F1LH-EXPOSURE SION RULL OR LAT. TIMES-HR M SEC SENSOR AND FILTER TUDE PRING AT ANG. ANG. FWO. TYPE FR. HALH LONG. ( I = EST [ MATED ] M=N.MI PT. LAP VERT K=KM. 8. 8

- L 4 1 6 71-175 91-33E 6 \*\*\* \*\*\* 154628 5-11-67 LUNAR ORB HI: 610MM B6W NONE 3518K 5754898 97 2-4 9 --90 CAM-NAD-- 71-135 76-36E 5WINGE 265. PHASEE 88. EMIS-ANG-E 7. CAM-RAD-E 5249-2 KM. SUN AZME 61-9 LAC 139 HELMHULZ-HALE : I LAC 129 M-AUSTRALE-LYOT & LAC 144 SCOTT-S-POL
- L 4 I 8 70-495 91-35E 6 \*\*\* \*\*\* 154648 5\*\*11-67 LUNAR ORB HI. 610HH BGW NONE 3505K 574590Z 92 2\*4 9 \*\*\*90 CAH\*NAD\*\* 70-915 76-54E 5WING\*\* 260. PHASE\*\* 88. EMIS\*\*ANG\*\*\* 7. CAM\*\*RAD\*\*\* 5244.2 KM. SUN AZM\*\* 61.9 LAC 139 MELMHULZ\*\*HALE : : LAC 139 MELMHULZ\*\*HALE : LAC 144 5COTT\*\*5\*POL
- L 4 1 32% 71°455 77°79E 8 \*\*\* \*\*\*\* 154747 5-12-67 LUNAR ORB HI: 610MM 86W -- NONE 3505K 5745902 9R 2°3 8 -\*\*\* Can-had = 71°245 63°03E -- Swing= 266° -- Phase= 88° Enis-ang = 7° -- Can-rad = 5244°2 km° -- Sun a7m= 63°1 Degraded negalive : lac 139 helmhol 2° 1 lac 129 m°austral ; lac 128 biela hatt -- 6 lac 144 scott. 5°01°, 5°Pole
- L 4 1 58 71-585 54-40E 12 444 444-6 155118 5414-67 LUNAR ORB HI. 610MM 86W AND P4K 5727869 100 247 9 --44 CAM-NAD-= 71-365 37-31E SWING= 2694 PHASEM 894 EMISHANG= 84 CAM-RAD-= 3233-2 KM. SUN AZM= 6240 LAC 138 HANZINUS-1 LAC 139 HELMHOLZ-1 LAC 128 BIELA-WAT 1 LAC 129 H-AUSTRALE-LYOT 6 LAC 144 SCOTT-5-POLE
- L 4 2 58% /1.575 54.40E 12 000 000 155118 5-14-67 LUNAR DRB LO.F=80HH 86% NONE 3494K 43675000 100 207 9 -100 Lahonadom 71.365 37.31E 561NGm 2690 PHASEM 890 ENISOANGOM 80 CAMORADOM 523302 KHO SUN AZMM 6200 DEGRADED NEGATIVE 1 LAC 138 MANZINUSO : GONZ MOON SPHERE 1 LAC 141 RAYLEIGH 6 LAC 144 SCOTT 65.POLE

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MIS HAG FREPHOTO PRINEPT. ORB GLT GHT M-DA-YR CAMERA-LENS OR FILM-EXPOSURE ALTI SCALE AT TILI SUN SIDE. SION ROLL OR LAT. B TIMES-HR H SEC SENSOR AND FILTER TUDE PRING AZ ANG. ANG. FWD. LUNG. MAIN ( =ESTIMATED) TYPE HanaHI PT. FR. LAP Ħ K#KH. VER: L 4 2 76\* 42\*775 37\*87g 15 \*\*\* \*\*\*\* 043514 5\*16\*67 LUNAR ORB LO\*F=80MM 86M \* NONE 2972K 37150000 97 4.5 22 -... CAM-NAD. # 42.215 27.23E SHING# 296. PHASE# 79. EHIS.ANG. # 12. CAH+RAD+= 4711+2 KH+ SUN AZH# 67+2 LAC 114 HHELTA, JA : WOLZ HOON SPHENE : LAC 78 THEOPHILUS : LAC 112 TYCHO, STOFLER & LAC 144 SCOTT.S.POLE

LAC 138 MANAINUS, SCHMBGER I LAC 127 HOMMEL, VLACO I LAC 144 SCOTT, S. POLE REARSIDE >6 LAC 145 S. POLE FARS

L 4 2 94 72-115 20-19E 18 \*\*\* \*\*\* 160008 5-17-67 LUNAR ORB LO.F=80MM 86W - NONE 3517K 43962500 103 3.2 9 -.\*\*

CAM-NAD-- 71-705 U.67M SWING= 270. PHASE= 90. EMIS-ANG.= 10. CAM-RAD-= 5256-2 KM. SUN A7M= 59-4

LAC 138 MAM-ZIMUS.; W>1/2 MOON SPHERE; LAC 126 CLAVIUS.H ; LAC 144 SCOTT, 5.POLE NEARSIDE > 805 & LAC 145 S.POLE FARSI

L 4 2 1.6 72-165 9-45E 20 --- --- 160406 5-18-67 LUNAR ORB LO-F=80HM 86W -- NONE 3534K 44175000 104 3-4 9 ---
CAM-NAD-= 71-715 13-37W SWING= 272- PHASE= 90- EHIS-ANG-= 10- CAM-RAD-= 5273-2 KM- 5UN AZH= 58-0

LAC 137 NEW1UN-MD 1 W>1/2 MOON 5PHEHE : LAC 129 M-AUSTRAL : LAC 131 PRANDTL PLANK 6 LAC 144 SCOTT-5-POLE

L 4 2 112 42+575 1-35W 21 40\* 40\* 044650 5-19-67 LUNAR ORB LO-F=ROMM B&W - NONE 2986K 37325000 95 4-6 20 -,00 LAN-NAD-# 42-265 12-09W SWING= 294\* PHASE= 81\* EHIS\*ANG\*# 13\* CAM\*RAD\*# 4725\*2 KH\* SUN AZH# 69\*2 LAC 112 TYCHO-STOFLER : @>1/2 MOON SPHERE : LAC 144 SCOTT.S\*POLE NEARSIDE >6 LAC 76 RIPHAEUS MT\*

L 4 1 118 72-495 6-99W 22 0-0 0-0 1608US 5-19-67 LUNAR ORB H1 610HH 86W ... NONE 3555K 5827869 107 3-8 8 -.00

LAM-NAD-= 71-675 26-89W SWING= 275. PHASE= 90. EMIS-ANG.= 9. CAM-RAD-= 5294-2 KM. SUN AZM= 62-0

LAC 137 NEWTUM-HD 1 LAC 138 MANZINUS.: LAC 126 CLAVIUS.M ; LAC 144 SCOTT,S.POLE NEARSIDE > 805 6 LAC 145 S.POLE FARSI

L 4 2 118 72.495 6.99W 22 \*\*\* \*\*\* 160805 5~19-67 LUNAR URB LO.F=80HH R6W - NONE 3555K 44437500 107 3.0 8 -.\*\*

CAM.HAD.= 71.675 26.89W SWINGE 275. PHASE\* 90. EMIS.ANG.E 9. CAM.RAD.= 5294.2 KM. SUN AZME 62.0

LAC 137 NETION.HU : W>1/2 MOON SPHERE; LAC 131 PRANUTE : LAC 116 M.AUSTRALE.JENNER 6 LAC 94 PITATUS.M.NUR

L 4 2 124 43-005 14-088 23 \*\*\* \*\*\* 045059 5-20-67 LUNAR ORB LO-F=80MM 868 - NONE 2994K 37425000 99 4-8 20 --\*\*

CAM-NAD-= 42-205 25-42W SWING= 297+ PHASE= 82+ ENIS-ANG-= 13+ CAM-RAD-= 4733-2 KM+ SUN AZM= 69-4

LAC 111 ollhelm-E ; W>1/2 houn sphere; lac 94 pitatus-M+; lac 77 piolmaeus-Klein 6 lac 144 scott-s-polf

L 4 1 130 65.025 25.85W 24 \*\*\* \*\*\* 161143 5=20=67 LUNAR ORB HI: 610HM R6W -- NONE 3575K 5860656 46 4:1 9 --\*\*

CAN-NAD-= 71.635 40.64W SWING= 211: PHASE= 91: EMIS:ANG.= 13: CAM-PAD-= 5314-2 KM: SUN A7M= 69:3

LAC 137 NE.TUM.NU ; LAC 136 BAILLEY.K ; LAC 126 CLAVIUS.H ; LAC 125 SCHILLER, SEGNER 6 LAC 111 WILHELM.ELGE

6 LAC 109 PIAZZI,V.RO

		OBJETNATI LAGOR IN A	1456 371
MIS MAG FR <sub>e</sub> photo prinepte urb get Sion Rull or late a timese H H main Lunge (#=EST H	TYPE	AND FILTER TUDE PRIN. H=N.MI FT. K=KM.	VENI S. S.
L 9 2 131 30.505 23.47W 24 CAM.HAD. = 42.205 32.12W SWING LAC 11) WILHELM.ELGER.MEE	• 165252 5=20=67 LUMAR ORB LO.F=80HH E = 251	364 — NONE 2999K 37487500 • CAM+RAD+= 4738+2 KM+ 144 SCOTT <sub>4</sub> S.POLF NEARSIDE >6 LAC	52 5+0 2062 SUN AZM# 74+0 57 KEPLER,ENCKE
CAM-HAU-= 42-165 38-84H SWING LAC 111 HILHELN,ELGER,MEE	<ul> <li>Q45435 5-21-67 LUNAR ORB LO.F.BOHN 6</li> <li>295. PHASE B3. EMIS.ANG. 13.</li> <li>1 PSI/2 HUON SPHERE 1 LAC I</li> </ul>	BOW "NONE 3003K 37537500 CAN+RAD+= 4742+2 KM+ 144 SCOTT+5+POLE NEARSIDE >6 LAC	97 4.8 19 SUN A7M# 70.3 57 KEPLER, ENCKE
CAM-NAD-# 42-145 45-58W - 5#ING LAC 141 WILHELM-ELGEH-MEE	• 165605 5-21-67 LUNAR ORB LO.F=80MM 8 = 291• PHASE= 84• EM15•ANG.= 14• I D>1/2 HUON SPHERE : LAC 1	BOW - NONE 3007K 37587500 CAM-RAD-= 4746+2 KH- 144 SCOTT-S-POLE NEARSIDE >6 LAC	93 5-2 20 SUN AZH= 0.4 56 HEVELTHS: 101
CAM-HAD-# 42-115 52-33# SWING LAC 110 SCHICKARD.LACROIX	• 0457/2 5=22~67 LUNAR ORB LO+F=80MM 8 = 297. PHASE= 84. EMIS-ANG.= 13. I G>1/2 MUON SPHERE : LAC I	96W - NONE 3009K 37612500 CAM•RAD•# 4748•2 KM• 144 Scott,5•Pole Nearside >6 Lac	99 4.6 18 SUN AZH= 71.6 SE HEVELIUS.RET
L 4 1 154 71.7L5 33.51H 28 *** ***  CAM.HAD.* 72.UBS 69.24M SWING.  LAC 137 HETTUN, NU : LAC 136 BAILLEY, K	• 161555 5-22-67 LUNAR URB H1. 610MM 8 = 268.       PHASE= 94.  EMIS.ANG.= 16. I LAC 125 SCHILLFR. ; LAC 138 MANZIN	364	105 5.2 11 SUN AZM= 52.2
L 4 2 155 42.405 48.89W 28 S.ING.  LAM.NAD. = 42.07S 59.07W S.ING.  LAC 180 SCHICKARD.LACROIX	• 165927 5*22-67 LUNAR DR8 LO.F#8DMM B • 293• PHASE# 84• EMIS•ANG.# 12• E D>1/2 MU9N SPHER; I LAC I	6W - NONE 3011K 37637500 CAM+RAD+# 4750+2 KM+ 44 SCOTT+5.POLF NEARSIDE >6 LAC	95 4.3 17 SUN AZH= 7248 S6 HEVELIUS.PF1
CAM-MAD-= 42-035 65-80# SWING- LAC 110 SCHICKARD-LACROIX	• 045917	- NONE 3012K 37650000 CAM+RAD+# 4751+2 KH+ 44 SCOTT+5-POLF MEARSIDE >6 LAC	99 4+8 17 SUN AZN# 72+3 55 VASCODEGAMMA
L 4   166 /1-115 60-23W 30	• 151844 5+23-67 LUNAR ORB HI. 610MM B = 264. PHASE= 93. EM15-ANG.= 10.   LAC   10 SCHICKARD   LAC 137 NEWION	EW - NONE 3593K 5890164  CAM-RAD 5332-2 KH	IN1 3.4 7 -, SUN A7M= 66.4 144 Scott.S.Poir
L 4 2 167 42+015 60+70% 30 ++* +++ CAM+NAD+* 41+825 72+48% Swing* LAC BIO SCHICKARD+LACROIX	> 170012 5=23=67 LUNAR ORB LO.F=80MM B > 292. PHASE= 86. EMIS.ANG.= 14.   W>1/2 MOON SPHERE 1 LAC 1	- NONE 3009K 37612500 CAM-RAD.= 4748.2 KM. 44 SCUTT.S.POLE NEARSIDE >& LAC	95 5.0 17 SUN AZH# 72.6 55 VASCODEGAMMA
CAM-MAD-# 41-965 J9-20M SHING- LAC 1U9 PIAZZI.V.BUUVAND	) 050U29   S=24-67 LUNAR ORB LO.F=80HN B   297.   PHASE= 86. EMIS-ANG.= 13.   W>I/Z MOON SPHERE     LAC	6# - HONE 3011K 3763750G CAM+RAD+= 4750+2 KH+ 44 SCOTT+5-POLF NEARS1DE >6 LAC 7	100 4.8 16 SUN AZM# 73.1 Z ELVEY NOBEL
L 4   179 69-525 74-07N 32 000 0000 CAM-HAU-# /1-385 96-22N SWING LAC 136 BAILLEY-KIRCHER	: 161924 5-24-67 LUNAR URB HI. 610MM BI : 2460     Phast≈ 94. Emis.ang.= 11. : Lac 143 S.Hausen Legentil : Lac 1:	6# - NONE 3592k 5888525 CAM+RAD+= 5331+2 KM+ 24 PHOCYLIDES & 1 Ar	86 3.6 7 SUN AZM# 68.2 LOS PIAZZI.V.BO

L 4 2 480 46+835 75+23# 32 \*\*\* \*\*\* 170054 5-24-67 LUNAR ORB LO.F#86MM 86# CAN-NAD = 41.995 85.868 SWING# 283. PHASE# 87. EHIS-ANG.# 13. CAM-HAD.# 4748.2 KM. SUN A7M# 74.6 \* NONE 3009K 37612500 85 4.6 16 -... LAC 109 PIAZZI.V.BUUVARD : 8>1/2 HUON SPHERE 1 LAC 144 SCOTT.S.POLF NEARSIDE >6 LAC 72 ELVEY NOBEL

: LAC 143 S.HAUSEN LEGENTIL : LAC 124 PHOCYLIDES

H J 5	MAG	FR.PHOTO	PRIN.PT.	URB	GŁI GMI	M+DA-YR CAM	ERA-LENS OR	FILM-E	(POSURE	ALTE SCALE AT	TILT SUNS	IDE.
5100	HULL	OR	LAT.	#	TIMES-HR M SEC		SENSOR		AND FILTER	TUDE PRIN.	A7 ANG. ANG.	FWD.
#	Ħ	HAIN	LUNG.		( = ESTIMATED)		TYPE			H=N.H! PT.	FR.	LAP
		Ħ								K=KH•	VERI	8 , F
	CAMer	NAD 41.	265 61.344 965 92.484 .V.BUUVARD		5WING= 293+ ; @>1/2		EHIS.ANG.= 13	3 •	CAM.RAD.=	4745.2 KM.	95 4+7 16 SUN A7H# 74+2 72 ELVEY NOBEL	-,••

TUTAL PHOTOS IN THIS GROUP = 34

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CAMERA-LENS AS FOLLOWS:

A STATE OF THE PROPERTY OF THE

. . DEGRADED PHOTOS. . . ALMOST UNUSABLE PHOTOS. THESE THO SYMBOLS NEXT TO MAIN OR PHOTO NUMBER HEAN! TILT ANGLES : AZINUTH OF DIRECTION OF TILTIAZI & VERTICAL TO CAMERA AXIS I-1.(+).( ). OR(U) = NO INFO = APPROXIMATELY NEXT TO MAGH, B=BRACKET HOUNTED: G= CAM, ON GROUND SW.A. = SUPER WIDE ANGLE LENS! EKTREEKTAR 2.8 LENS! HSB= HASSELBLAD: HAUR= NAURER: ZP, ZB, ZS = ZEISS LENS(PLANAR, RIOGEN, SORARI: FOCAL LENGTH(HH) & HAX.F-OPENING IN AS EXPOS SPEED # 1/1000 (OR \*\* TWO ZEROS) FUR LUNAR ORBITER & AFTER ALTITUDE EQUALS KILOHETERS CULUMN HEADINGS APPLY TO FIRST DATA LINE OF EACH PHOTO: SCALE IS THE XXX OF 1,XXX ON ORIGINES. AT PP IF ALT NOT O.D.

ALTI SCALE AT TILT SUN SIDE. FILM-EXPOSURE CAMERA-LENS OR GET GHT M-DA-YR MIS HAG FR.PHULU PRIM.PT. ORB AND FILTER TUDE PRIN. AZ ANG. ANG. FWD. SENSOR TIMES-HR M SEC SION ROLL OR LAT. # FR. LAP M=N.MI PT. TYPE LIBESTIMATED) MAIN LUNG. VERT K#KH+ - NONE 3513K 5759016 100 2+4 9 6 ... ... [546]8 5-11-67 LUNAR OR6 HI. 610HH B6# 5 71.5us 91.31E CAM+RAD+= 5252+2 KM+ SUN AZM= 61+8 PHASE 88. EMIS.ANG. 7. 5m1NG= 267. LAM. HAD. = 71.235 76+27E I LAC 130 E.MAR AUSTRALE PRIESTL: LAC 129 H.AUSTRALE LYOT 6 LAC 144 SCOTT, S. POL LAC 139 HELMHULZ.HALE

- NONE 3510k 5754098 97 2+4 9 -.90 6 800 0000 154628 5-11-67 LUNAR ORB HI. 610MM B&W L 4 1 6 71-175 91-33E CAM+RAD+= 5249+2 KM+ SUN AZH= 61+9 PHASE # 88. EMIS.ANG. 7. Swing= 265. CAM-NAD .= 71-135 76-36E F LAC 129 H.AUSTRALE.LYOT & LAC 144 SCOTT.S.POL LAC 139 HELMHULZ.HALE ;

- NONE 3505K 5745902 92 2+4 9 -+90 6 ... ... 154648 5-11-67 LUNAR URB HI. 610MM BGM 1 4 t 8 74.495 91.35E CAH-RAD-# 5244-2 KH- SUN AZH# 61-9 PHASE= 88. EHIS.ANG. 7. SWING= 260. CAM-NAD-= 7J-915 76-54E & LAC 144 SCOTT+5+POL I LAC 129 H.AUSTRALE.LYOT LAC 139 HELMHULZ HALE

+ NONE 3505K 5745902 98 2+3 8 -+\*\* 8 ... ... [54747 5-12-67 LUNAR ORB HI. 610MM BGW L 4 1 325 71.405 77.79E CAM-RAD-# 5244-2 KM- SUN AZH# 63-1 PHASE - BB. EMIS.ANG. - 7. Swings 266. CAH-NAD-= 71-245 63-83E 6 LAC 144 SCOTT.S.POLE DEGRADED NEGATIVE : LAC 139 HELMHOLZ. : LAC 129 M.AUSTRAL : LAC 128 MIELA, MATT

- NONE 3498K 5734426 107 3+0 9 -. \*\* L 4 1 44 72+125 69+66E 10 ++\* ++\* 154924 5-13-67 LUNAR ORB HI. 610HH B6W CAM-RAD == 5237+2 KH+ SUN AZH# 59+6 SKING= 275. PHASE= 89. EMIS.ANG. 9. CAM-HAD-= 71-275 50-06E LAC 139 HELMHULZ. : LAC 129 H.AUSTRAL ; LAC 128 BIELA.WAT : LAC 144 SCOTT.S.POLE NEARSIDE > 805 6 1.40 145 S.POLE FARSI

- NONE 3494K 57278A9 100 2+7 9 58 71-585 54-40E 12 \*\*\* \*\*\* 155118 5-14-67 LUNAR ORB HI. 610HH B6W CAM-RAD-= 5233-2 KM- SUN AZM# 62+0 CAM-HAD = 11-365 37-31E Swing= 269. PHASE= 89. EHIS-ANG.= 8. LAC 138 MANZIMUS. 1 LAC 139 HELMHOLZ. : LAC 128 BIELA, WAT : LAC 129 M.AUSTRALE.LYOT & LAC 144 SCOTT+5+POLE

- NONE 3497K 57327R7 ID9 3+7 ID -+++ 70 72+655 49+66E 14 ++\* ++\* 155335 5-15-67 LUNAR URB HI. 610HM 86% CAM-RAD. = 5236.2 KM. SUN AZH 55.1 CAM. NAU. = 71.565 24.60t SWING = 276. PHASE = 90. EMIS.ANG. = 11. & LAC 144 SCOTT, S.POLE EAC 138 MANZINUS. I LAC 139 HELMHOLZ. : EAC 127 HOMMEL.VL ! LAC 128 BIELA.WATT

+ NONE 3403K 5742623 186 3+1 9 -++4 82 72-375 32-4 E 16 \*\*\* \*\*\* 155638 5-16-67 LUNAR ORB HI. 610HM 86% CAM+RAD+# 5242+2 KH+ SUN A7H# 59+4 CAM-NAD-= /1-025 12-04E SWING= 273+ PHASE= 90+ EMIS-ANG-= 9+ LAC 144 SCUTTIS, POLE NEARSIDE >6 LAC 145 S. POLE FARS : LAC 127 HOMMEL. VLACO LAL 138 MAHZINUS, SCHMBGER

- NONE 3517K 5765574 103 3+2 9 4+\*\* L 4 i 94 72-115 20-19E 18 \*\*\* \*\*\* 168008 5-17-67 LUNAR ORB H1 616MH 86W CAH+RAD+# 5256+2 KH+ SUN AZH# 59+4 CAH-HAD-# 71-765 U-674 SHING# 270. PHASE# 90. EHIS-ANG.# 10. & LAC 144 SCOTT+S.POLE LAC 138 MARZINUS. : LAC 137 NEWTON.MO : LAC 127 HOMMEL.VL : LAC 126 CLAVIUS.MAGINUS

" NONE 3341K 41762500 187 16+7 3

							PRUE 394
n	PRIN.PT. URB GET ( T. # TIMES-HR N LUNG. (:=ESTIMAT	'EU)	TYPE		NaNaHI PT.	AZ ANG. FR.	ANG. FWD.
L 4 1 106 72.16S	20+19E 18 *** *** 16 5 0+67% SWING= 27 6 W>1/2 HOUN SPHERE ; 9+46E 20 *** *** 16				3517k 43962500 5256+2 km+ 805 & EAG	173 3+2 SUN AZH# C 145 5+PO	2 9 -,44 5944 DLE FARSI
CAM-HAD-= 71.71: LAC 137 HENTUH,MU	S 13+37W SWING 27 1 LAC 138 MANZINUS, 1	/2. PHASE 90. LAC 126 CLAVIUS, M :	EMIS.ANG. 10. EMIS.ANG. 10. LAC 127 HOMMEL.UI	- NONE	3535k 5795naz 5274+2 KM+	104 3+4	9 <b></b> •
CAM-NAD-= 71-675 LAC 137 NEWTON-NO :	5 26+89W SWING 27 I LAC 138 MANZINUS 1	S. PHASE 90. LAC 126 CLAVIUS.H :	EMIS.ANG.m 9. LAC 144 SCOTT.S.P	MANE CAM+RAD+#	3555K 5827869 5294+2 KH+	107 3+0 SUN AZMm	8 62.0
CAM-HAD.= 71.195 LAC 136 BAILLEY.K :	6 82.44W SWING= 26 LAC 124 PHOCYLIDE :	4+ PHASE= 93. LAC #10 SCHICKARD :	ORB HI: 610MM BGW EMIS:ANG.= 10. LAC 137 NEWION.MO	CAM+NAD+=	3593K 5890164 5332+2 KM+	101 3+4 5UN AZM= 1	7 -,00
LAC 136 BAILLEY,R	96+226 SHING= 240 TRCHER I LAG	6. PHASE 94. C 143 S.HAUSEN LEGE	EMIS-ANG. = 11.	EAM+RAD+#	3592K 5888525 5331+2 KH+	86 3.6 SUN AZME A	7 • •
LAC 145 S.PULE FARS	69+07W SWING= 25 10E:AMUNDSE: 31/4 NOO	5. PHASE* 119. NS SPHERE : LAC 141	EMISOANGO 580	CAM-RAD-=	3342K 5478688 5081+2 KH+	LA7 16.8 SUN AZH#3*	3
CAM+NAD+= 54-725	148.60W 3 *** *** 171 69.07% Swing= 26	1706 8-06-67 LUNAR	ORB LU-F=80MM BGW	- NONE	3341K 4176250D	187 16.7	3

CAM-NAD-= 54-725 69-076 SWING= 26. PHASE= 119. EHIS-ANG.= 57. CAM-RAD-= 5080-2 KH. SUN AZM=336-7

LAC 145 S.PULE FARSIDE AMUNDSEN >80 ; LUNAR DISC FARSID ; LUNAR S. HEMISPHE ; LAC 140 SCHRODIN ; LAC 173 STEK & LAC 108 H.OR

TOTAL PHOTOS IN THIS GROUP # 16

MIS MAG FR.PHUTU PRIN.PT. DRA GET GMT M-DA-YR CAMERA-LENS DR FILM-EXPOSURE ALTI SCALE AT TILT SUN SIDE. SION RULL UR LAI. TIMES-HR M SEC SENSOR AND FILTER TUDE PRIN. AZ ANG. ANG. FND. MAIN LUNG. ( =ESTIMATED) TYPE HON.MI PT. FR. LAP K=KH. VERT 8. 9

- L 4 2 210 42048N 98082E 6 000 0000 180334 5-11-67 LUNAR ORB LOOFEBONH BEW NONE 2979K 372375NO R6 108 27 -.00

  CAMONADOR 42088N 94055E SWINGE 2490 PHASEE 670 EMISOANGOR 50 CAMORADOR 471802 KM0 SUN A7MRII708

  LAC 24 BRUHU FABR : W>1/2 HOON SPHERE I LAC 81 ANSGARIUS, 1 LAC 146 NoPOLE FARSIDE NANSEN.#3 >80N 6 LAC 64 NE 45MYTHII HE

- L 4 | 68 70.930 53.66E 13 000 0000 D64827 5-15-67 LUNAR ORB HI. 61DMM B6W "NONE 3488K 5718D33 239 07 12 -.70 LAM-NAD-- 71.63N 57.12E SWING- 50. PHASE- 78. EHIS.ANG.- 2. CAM-RAD-- 5227.2 KM. SUN AZM-124.4 LAC 4 MEIUM.DESIT : LAC 5 PETERMANN, ; LAC 14 ENDYMION.S : LAC 1 N.POLE NEARSIDE BYRD.PEARY >80 N & LAC 146 N.POLE FARSI

- L 4 2 127 41-21N 14-29H 23 000 0000 00261D 5-ZO-67 LUNAR URB LO-F-BOMM BBN -- NONE 2886K 3A0750DD L14 2-2 22 --29

  CAM-HAD-F 42-81N 18-79W SWINGE 278- PHASE 74- EMIS-ANG-F 6- CAM-RAD-F 4625-2 KM- SUN AZM-109-6

  LAC 24 51NU5 [KID ] W>1/2 MOUN SPHEKE; LAC 76 RIPHAEUS M; LAC 1 N.POLE NEARSIDE BYRD-PFARY >80 N & LAC 146 N.POLE FARSI

5.1	UN	KUL	-L	UH	L	. A T 4			TIMES-H	K M SEC	H=DA=YH	CAMERA Se T	NSOK			AND F	TE TLTER	TUDE H=N•M	CALF AT PRIN. I PT.	A 7	AUG. A	NG.	FMD.
L				,	,	214	37./95	,	2411102	J41.	5-22-67 PHASE ANAXIMENES	: Al. E	MIS AN	6	i _	C & M . D	A (1) -	Eng 4 3	av 14	CHI	A 74 1 2		
L		C M I	I T T A L	, • -	,	. O N	7/0115	,	2011/02	3130	5-23-67 PHASE: PHILOLAUS	· Bla E	1115 a a N	6	1.	CAMAD	1 4 13 4 4	5085.2	w H .	CITAL		A . D	
L		CAF	1 a la V	) • <del>=</del>	12.2	BN	59.778	,	>+10€=	320.	5-24-67 PHASE: PHILOLAUS	* 81. E	MIS.AN	16.4	1.	CAMAR	40	En93.2	r M .	SHM	A7M=17	E . *	
Ļ		CHI	TONAU	, . =	14.1	1 1/1	/2 · 45 M	1	-># [ N @ =	306+	5-25-67 PHASE: BABBAGE:	, 82. E	MISOAN	6.*	٠.	CAMAR	AD	5112.2	K M a	SHIN	A 2 M = 1 2	9.7	~•4A

TOTAL PHOTOS IN THIS GROUP . 13

27 SEP 73 20: 9:18.808